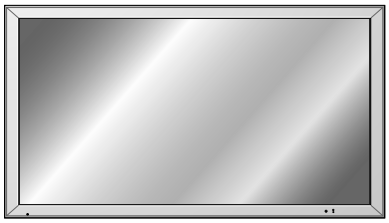
website:http://biz.LGservice.com
e-mail:http://www.LGEservice.com/techsup.html

PLASMA MONITOR/TUNER
SERVICE MANUAL

CHASSIS : RF-03FA

MODEL : MT-42PZ44/S/45M/V/VB/47M/V
MZ-42PZ44/S/45V/VS
RT-42PZ45V
RT/RZ-BA50

CAUTION
BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



CONTENTS

SAFETY PRECAUTIONS 3

DESCRIPTION OF CONTROLS 4

SPECIFICATIONS 8

ADJUSTMENT INSTRUCTIONS 17

BLOCK DIAGRAM.....19

ASSEMBLY METHOD.....20

PRINTED CIRCUIT BOARD 25

EXPLODED VIEW.....30

EXPLODED VIEW PARTS LIST 31

REPLACEMENT PARTS LIST.....32

SCHEMATIC DIAGRAM .....

SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this monitor is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

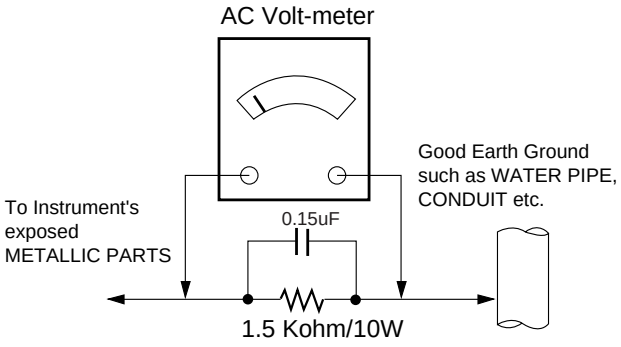
Keep wires away from high voltage or high temperature parts.

Due to high vacuum and large surface area of picture tube, extreme care should be used in **handling the Picture Tube**. Do not lift the Picture tube by it's Neck.

Leakage Current Cold Check(Antenna Cold Check)
With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.
If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1MΩ and 5.2MΩ.
When the exposed metal has no return path to the chassis the reading must be infinite.
An other abnormality exists that must be corrected before the receiver is returned to the customer.

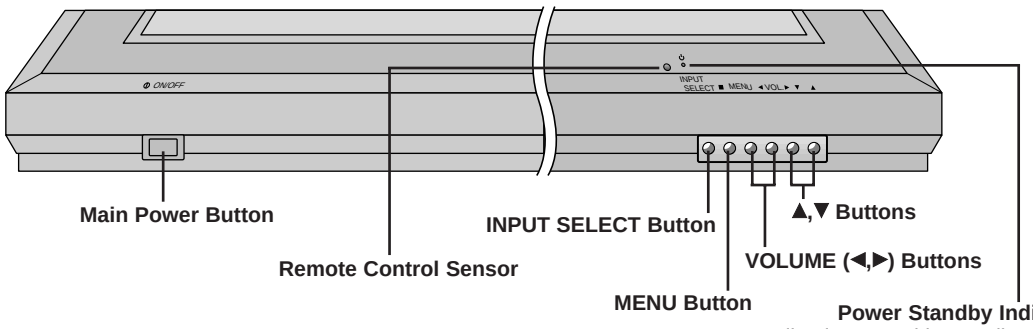
Leakage Current Hot Check (See below Figure)
Plug the AC cord directly into the AC outlet.
Do not use a line Isolation Transformer during this check.
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.
Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.
In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit

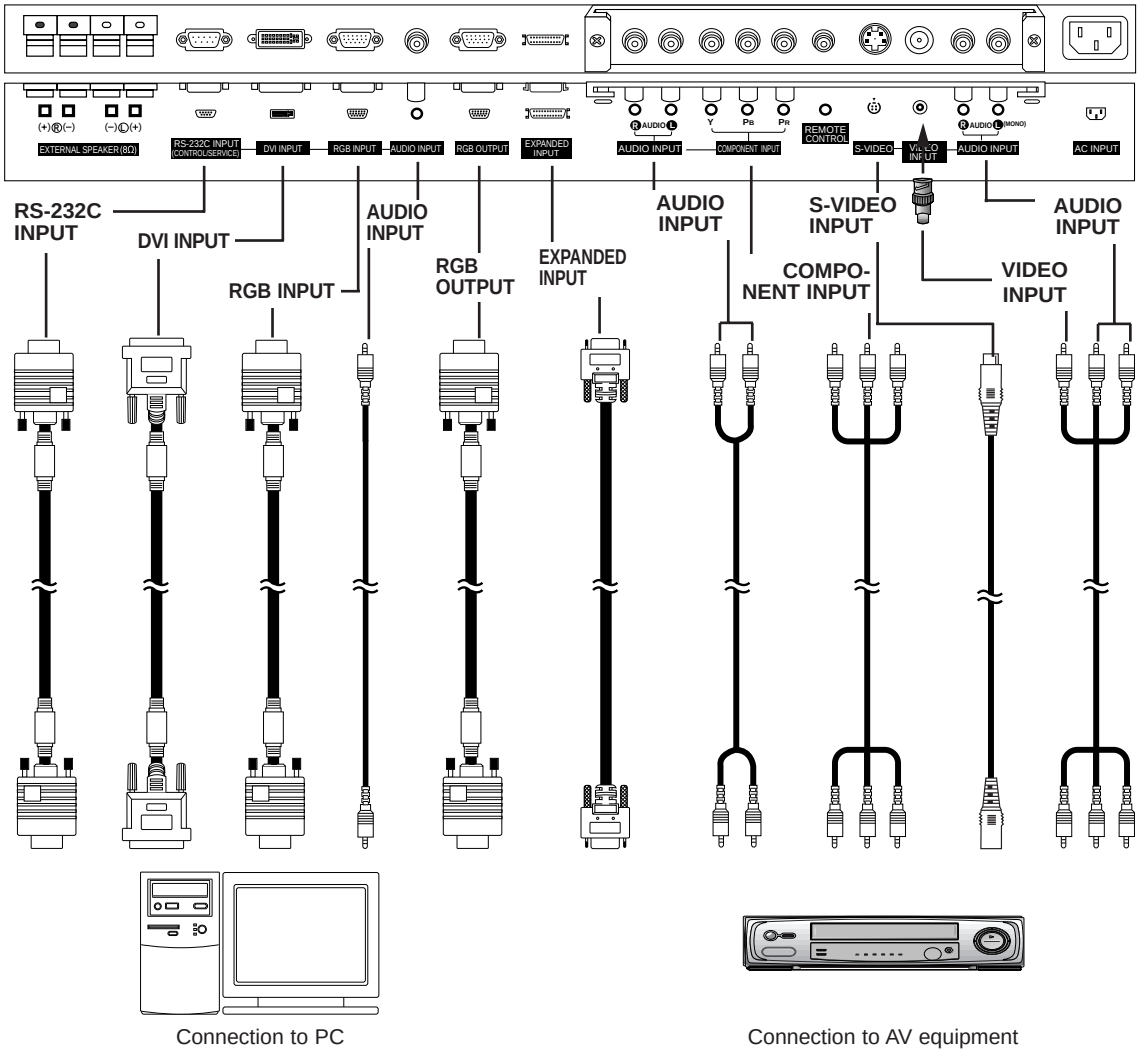


DESCRIPTION OF CONTROLS

<Front Panel Controls>



<Back Panel>

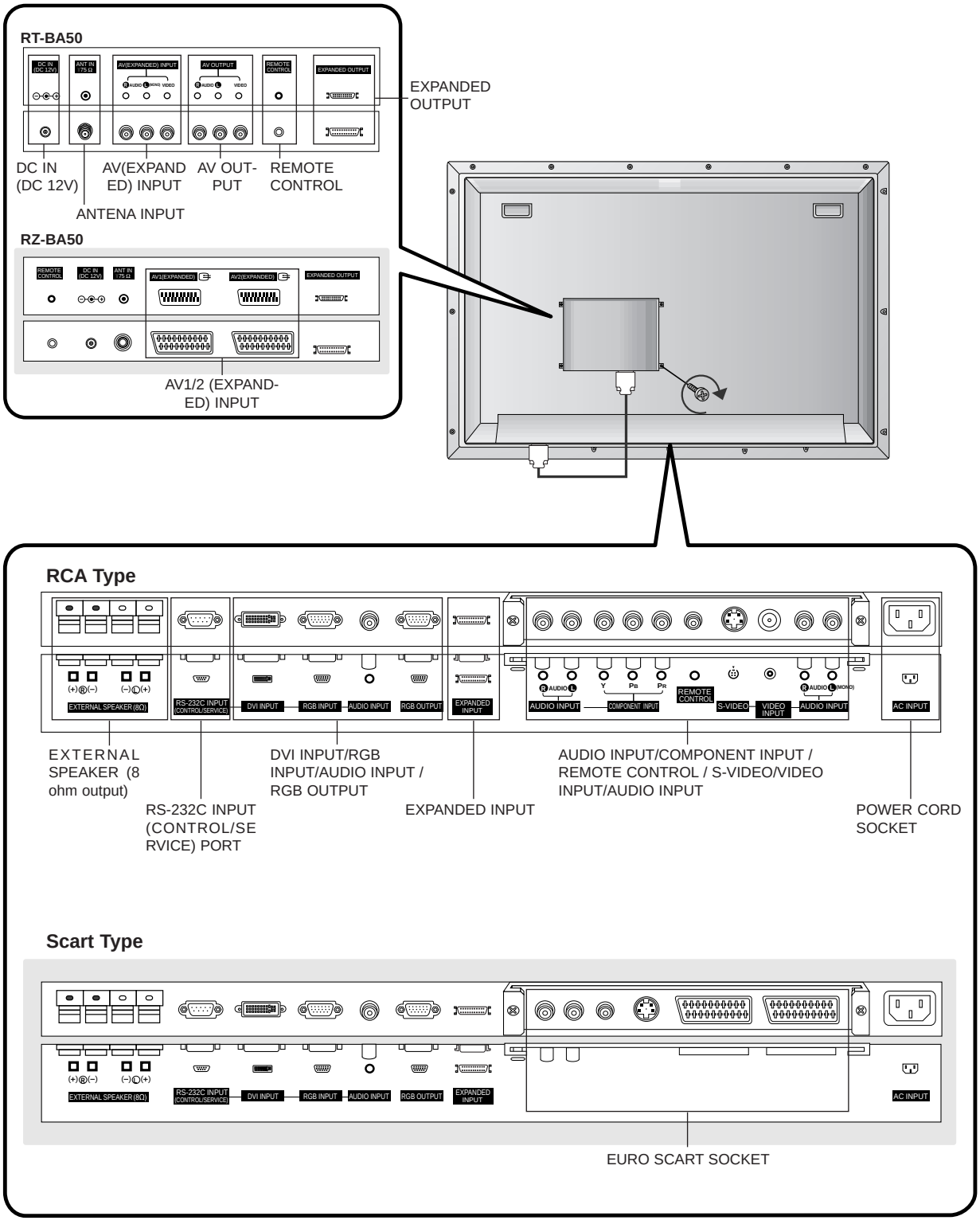


Connection to PC

Connection to AV equipment

***Note**: The connection cables shown above to the right are not included with the Monitor.*
A D-sub 15-pin cable and a DVI cable are provided to connect the Monitor to a PC.

<Back Panel>


RT-BA50
DC IN (DC 12V)
ANT IN 75 Ω
AV(EXPANDED) INPUT
AV OUTPUT
REMOTE CONTROL
EXPANDED OUTPUT
EXPANDED OUTPUT
DC IN (DC 12V)
AV(EXPANDED) INPUT
AV OUTPUT
REMOTE CONTROL
ANTENA INPUT
RZ-BA50
REMOTE CONTROL
DC IN (DC 12V)
ANT IN 75 Ω
AV1(EXPANDED)
AV2(EXPANDED)
EXPANDED OUTPUT
AV1/2 (EXPANDED) INPUT
RCA Type
EXTERNAL SPEAKER (8Ω)
RS-232C INPUT (CONTROL/SERVICE)
DVI INPUT
RGB INPUT
AUDIO INPUT
RGB OUTPUT
EXPANDED INPUT
AUDIO INPUT
COMPONENT INPUT
REMOTE CONTROL
S-VIDEO
VIDEO INPUT
AUDIO INPUT
AC INPUT
EXTERNAL SPEAKER (8 ohm output)
RS-232C INPUT (CONTROL/SERVICE) PORT
DVI INPUT/RGB INPUT/AUDIO INPUT / RGB OUTPUT
EXPANDED INPUT
AUDIO INPUT/COMPONENT INPUT / REMOTE CONTROL / S-VIDEO/VIDEO INPUT/AUDIO INPUT
POWER CORD SOCKET
Scart Type
EXTERNAL SPEAKER (8Ω)
RS-232C INPUT (CONTROL/SERVICE)
DVI INPUT
RGB INPUT
AUDIO INPUT
RGB OUTPUT
EXPANDED INPUT
AC INPUT
EURO SCART SOCKET

- This function works only when the PDP Tuner is installed on the LG plasma display monitor.

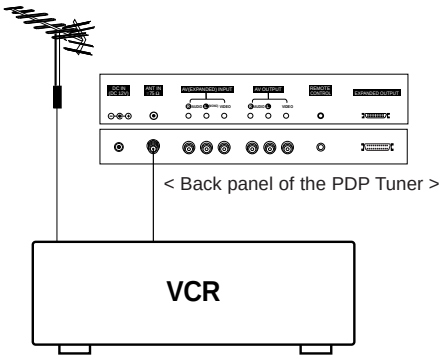
Installing PDP Tuner on the Monitor

1. Turn the monitor off and disconnect the mains plug.
2. Carefully place the Monitor screen side down on a cushioned surface that will protect the monitor screen from damage.
3. Mount the PDP Tuner gently into the correct position. Make sure it is inserted correctly.
4. Tighten the screws.
5. Connent the EXPANDED OUTPUT socket the on the PDP Tuner to the EXPANDED INPUT socket on the Monitor.
6. Turn the monitor on.

Antenna Connection

- Connect the Plasma Display with various external equipments after connecting the Monitor with the PDP Tuner and the Speakers.

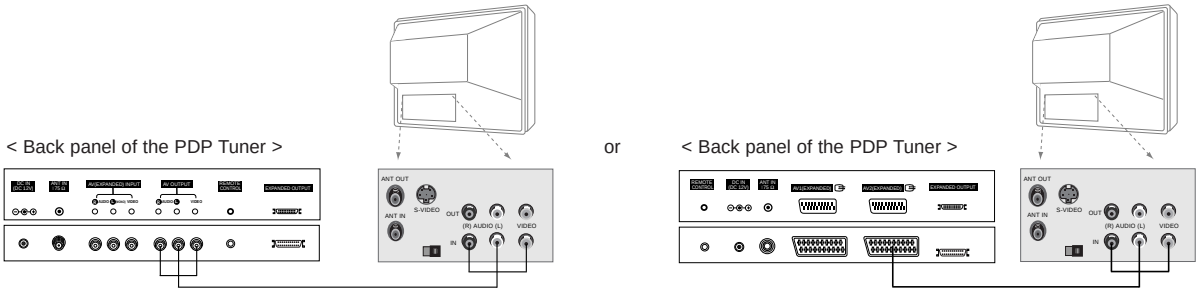
1. Connect the RF out socket of the VCR to the aerial socket on the back of the monitor.
2. Connect the aerial cable to the RF aerial in socket of the VCR.
3. Store the VCR channel on the programme number 0 using the 'Manual programme tuning' section.
4. Select the programme number where the VCR channel is stored.
5. Press the **PLAY** button on the VCR.



Monitor Out Setup

The PDP Tuner has a special signal output capability which allows you to hook up a second TV or monitor.

Just connect the second TV or monitor to the AV OUTPUT socket on the PDP Tuner. See the Operating Manual of the second TV or monitor for further details regarding that device's input settings.



RZ-BA50				RT-BA50			
	Input Mode		Monitor OUT (AV2(EXP.))		Input Mode		Monitor OUT (AV(EXP.))
Normal	TV, AV, AV1(EXP.) or S-Video		Main Picture	Normal	TV, AV(EXP.), AV or S-Video		Main Picture
PIP/DW	Main Picture	RGB, DVI or Component	Sub Picture	PIP/DW	Main Picture	RGB, DVI or Component	Sub Picture
	Sub Picture	TV or AV1(EXP.)			Sub Picture	TV, AV(EXP.)	
	Main Picture	TV, AV, AV1(EXP.) or S-Video	Main Picture		Main Picture	TV, AV(EXP.), AV or S-Video	Main Picture

Watching VCR

- When connecting the Monitor to external equipment, match the colours of connecting ports (Video - yellow, Audio (L) - white, Audio (R) -red).
- Connect the VIDEO INPUT socket (yellow) with the BNC-RCA adaptor to the VIDEO INPUT on the Monitor.
- If you have a mono VCR, connect the audio cable from the VCR to the AUDIO (L/MONO) input on the Monitor.
- If you connect an S-VIDEO VCR to the S-VIDEO input, the picture quality is improved; compared to connecting a regular VCR to the Video input.
  Or, connect the Euro scart socket of the VCR to the Euro scart socket of the monitor.
- Use the orbiter function to Avoid having a fixed image remain on the screen for a long period of time. Typically a frozen still picture from a VCR.
  If a 4:3 picture format is used; the fixed image may remain visible on the screen.
- To avoid picture noise (interference), leave an adequate distance between the VCR and Monitor.

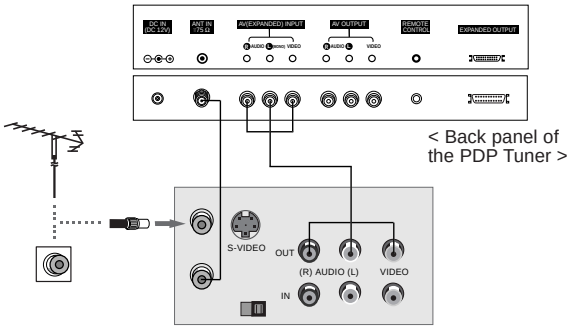
Watching TV programmes

- Turn the Plasma Display on and select the programme you want.

Watching VCR

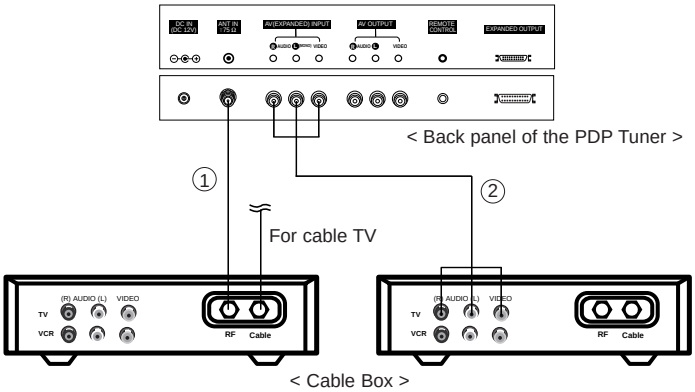
1. Use the **INPUT SELECT** button on the remote control to select ***AV*** (***AV1*** or ***AV2***) or ***AV(EXP.)*** (***AV1(EXP.)*** or ***AV2(EXP.)***).
- If both S-VIDEO and VIDEO sockets have been connected to the S-VHS VCR simultaneously, only the S-VIDEO can be received.
- If connected to S-VIDEO, select the ***S-Video*** external input source.

2. Insert a video tape into the VCR and press the **PLAY** button on the VCR. (See VCR owner's manual)



Watching Cable TV

- After subscribing for a local cable TV station and installing a converter you can watch cable TV.
- For further information of cable TV, contact the local cable TV station.



In using connection 1

1. Select programme number in programme switch of cable box.
2. Match the Plasma Display programme with selected programme of cable box.
3. Select your desired programme with the remote control for cable box.

In using connection 2

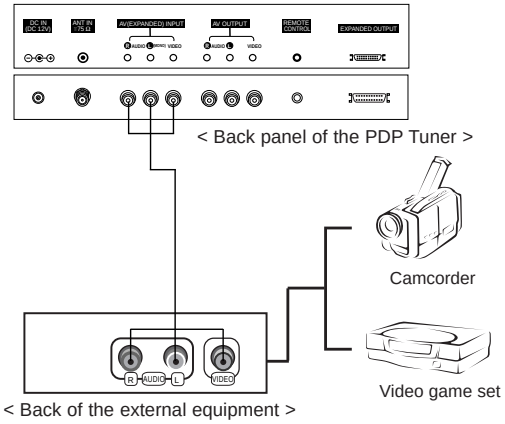
1. Use the **INPUT SELECT** button on the remote control and select ***AV*** (***AV1*** or ***AV2***) or ***AV(EXP.)*** (***AV1(EXP.)*** or ***AV2(EXP.)***).
2. Tune to cable service provided channels using the cable box.

Watching external AV source

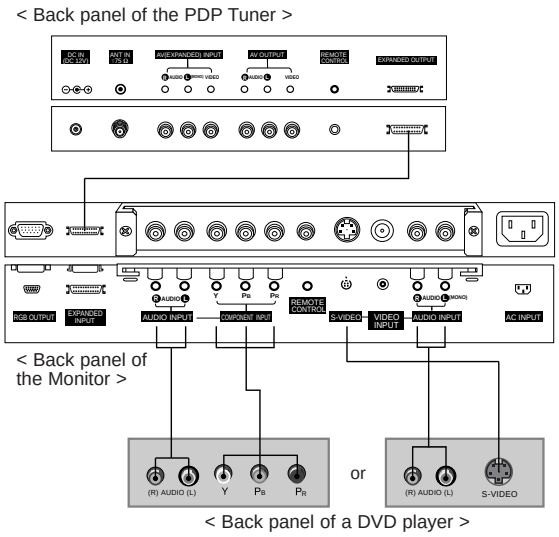
- When connecting the monitor to an external source, match the colours of AUDIO/VIDEO input jacks on the monitor with the output jacks on the audio/video equipment: Video = yellow, Audio (Left) = white, Audio (Right) = red.
  Or, connect the Euro scart socket of the VCR to the Euro scart socket of the monitor.

How to use

1. Use the **INPUT SELECT** button on the remote control to select ***AV*** (***AV1*** or ***AV2***) or ***AV(EXP.)*** (***AV1(EXP.)*** or ***AV2(EXP.)***).
2. Operate the corresponding external equipment. See external equipment operating guide.



Watching DVD



How to connect

Connect DVD video inputs to Y, P_B, P_R of COMPONENT INPUT and audio inputs to Audio sockets of AUDIO INPUT.
Or, connect the Euro scart socket of the VCR to the Euro scart socket of the set.

How to use

1. Turn on the DVD player, and insert a DVD.
2. Use **INPUT SELECT** button on the remote control to select ***Component*** or (***AV1*** or ***AV2***) or (***AV1(EXP.)*** or ***AV2(EXP.)***). Refer to the DVD player's manual for operating instructions.

- **Component Input ports**
  You can get better picture quality if you connect DVD player with component input ports as below.

Component ports of the Monitor	Y	P_B	P_R
Video output ports of DVD player	Y	Pb	Pr
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	P_B	P_R

Watching DTV (option)

- To watch digitally broadcast programs, purchase and connect a digital set-top box.

How to connect

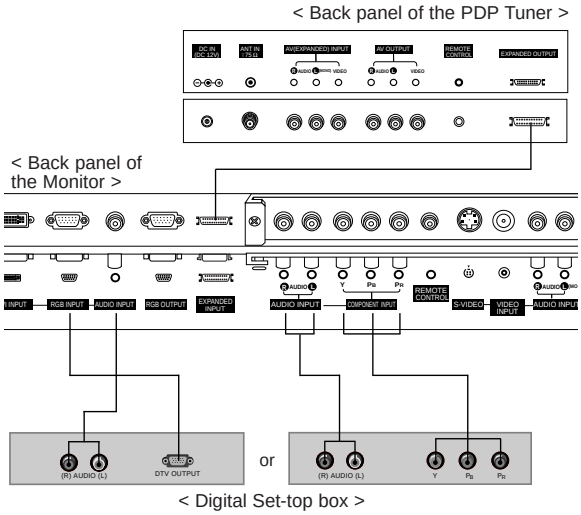
1. Use the monitor's COMPONENT (Y, P_B, P_R) INPUT, RGB or DVI jack for video connections, depending on your set-top box connector. Then, make the corresponding audio connections.

How to use

1. Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
2. Use **INPUT SELECT** on the remote control to select ***Component***, ***RGB*** or ***DVI***.

- **DTV Input signal**

Mode \ Terminal	Component	RGB (DTV)
576p(50Hz)	o	o
1080i(50Hz)	o	o
1152i(50Hz)	o	o

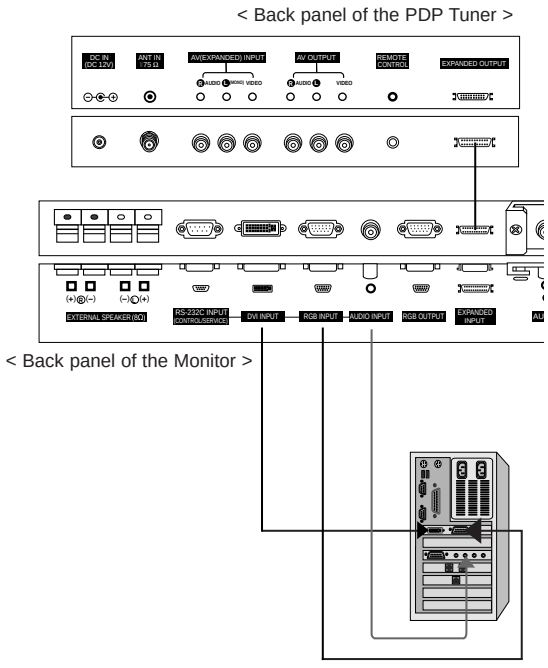


Connecting PC

- To enjoy vivid picture and sound, connect a PC to the Monitor.
- Avoid keeping a fixed image on the monitor's screen for a long period of time. The fixed image may become permanently imprinted on the screen; use a screen saver when possible.
- Connect PC to the RGB INPUT or DVI INPUT port of the Monitor; change the resolution output of PC accordingly.
- There might be a noise according to some resolution, vertical pattern, contrast or brightness in PC mode. Then change the PC mode into other resolution or change the refresh rate into other rate or adjust the brightness and contrast on the menu until the picture is clean. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult it to the manufacturer of the PC graphic card.
- The synchronization input form for Horizontal and Vertical frequencies is separate.

Setup Instructions to Connect a PC to your Monitor

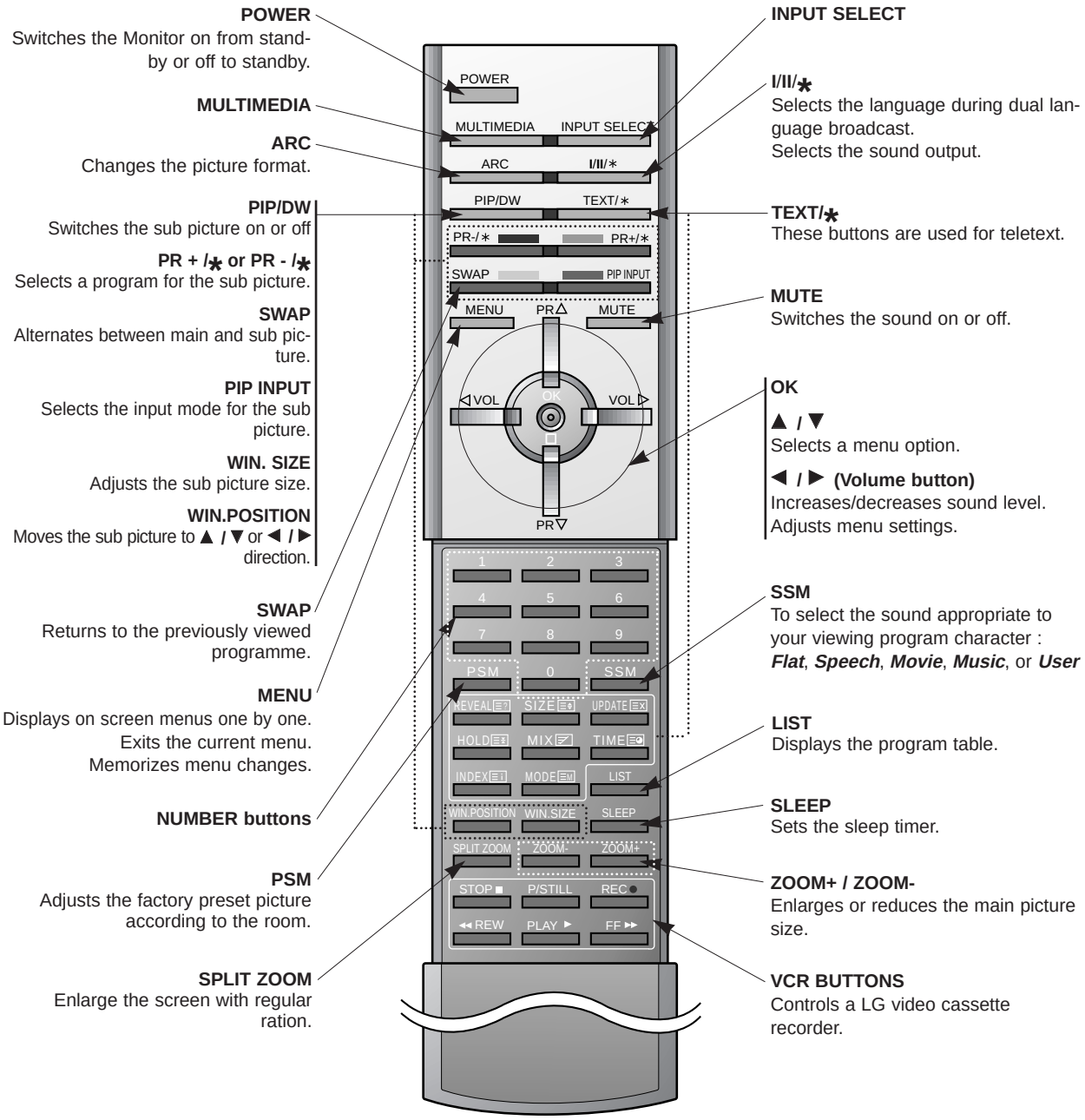
- We recommend using 640x480, 60Hz for the PC mode, they provide the best picture quality.
- If the resolution of PC is over UXGA, there will be no picture on the Monitor.
- Connect the signal cable from the monitor output port of the PC to the RGB INPUT port of the Monitor or the signal cable from the DVI output port of the PC to the DVI INPUT port on the Monitor.
- Connect the audio cable from the PC to the Audio input on the Monitor. (Audio cables are not included with the Monitor).
- If using a sound card, adjust PC sound as required.
- This monitor apply a VESA Plug and Play Solution. The monitor provides EDID data to the PC system with a DDC protocol. The PC adjusts automatically to use this monitor.
- DDC protocol is preset for RGB (Analog RGB), DVI (DVI, Digital RGB) mode.
- If required, adjust the monitor settings for Plug and Play functionally.
- If graphic card on the PC does not output analog and digital RGB simultaneously, connect only one of both RGB INPUT or DVI INPUT to display the PC on the monitor.
  If graphic card on the PC does output analog and digital RGB simultaneously, set the monitor to either RGB or DVI; (the other mode is set to Plug and Play automatically by the monitor.)
- DOS mode may not work depending on video card if using a DVI-I cable.
- To see a normal picture, match the VGA mode and DVI signal (640x480, 848x480, 852x480). (See page 28)



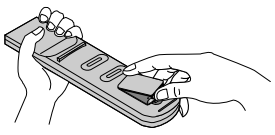
PC Setup

1. Turn on the PC and apply power to the Monitor.
2. Turn on the display by pressing the **POWER** button on the Monitor's remote control.
3. Use the **INPUT SELECT** button on the remote control to select the RGB or DVI input source.
4. Set the resolution output of the PC to SXGA or under (1280 x 1024, 60Hz).

- When using the remote control aim it at the remote control sensor of the Monitor.
- There's maybe a defect in consecutive operation of remote control in specified brightness according to this monitor feature.
- This remote control handset is the one offered when purchasing a LG plasma display monitor.



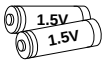
Installing Batteries



- Open the battery compartment cover on the back side and insert the batteries with correct polarity.
- Install two 1.5V alkaline batteries of AAA type. Don't mix used batteries with new batteries.

Accessories

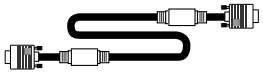
Owner's Manual



Alkaline batteries

BNC-RCA adaptor (optional)

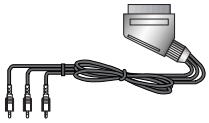
Remote Control handset



D-sub 15 pin cable

Power Cord

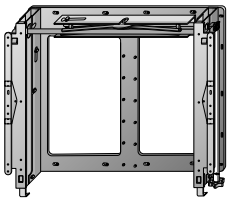
DVI-D Cable



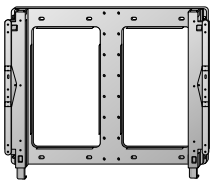
Phone scart cable (Optional)

Optional Extras

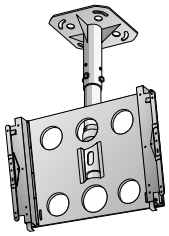
- Optional extras can be changed or modified for quality improvement without any notification new optional extras can be added.
- Contract your dealer for buying these items.



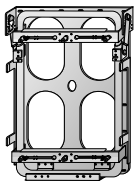
Tilt wall mounting bracket



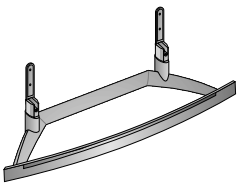
Wall mounting bracket



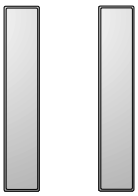
Ceiling mounting bracket



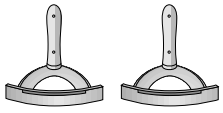
Vertical Wall mounting bracket



Desktop stand

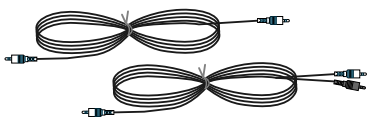


Speakers



Desktop Speaker stand

Video cables



Audio cables

SPECIFICATIONS

NOTE : Specifications and others are subject to change without notice for improvement.

■ Scope

This specification can be applied to all model of 42"PDP MONITOR related to RF-03FA Chassis.

Chassis	Model Name	Market Place	Brand
RF-03FA (Monitor)	MZ-42PZ44	EU	LG
	MZ-42PZ45V		
	MT-42PZ44/46	N-EU	LG
	MT-42PZ45V/47V		
RF-03FA (PDP Tuner)	RZ-BA50	EU	LG
	RT-BA50	N-EU	LG
AV BOARD	AP-42EA42	EU, Scart Type AV BOARD	LG
	AP-42EA43	N-EU, RCA Type AV BOARD	LG

■ Test Condition

1) Temperature : 25¡ 5°C
2) Relative Humidity: 65¡ 10%
3) Power Voltage:Standard Input Voltage
   (AC 110V-240V~, 50/60Hz)
   But Standard input voltage mark value is marked by model.
4) Follow each drawing or spec for spec and performance of parts,based upon P/N of RPL
5) Warm up set for more than 20min before the measurement.

■ Test and Inspection Method

1) Performance:Follow the Standard of LG TV test
2) Extra standards
   Safety: Follow the standard of CE, IEC
   EMC : Follow the standard of CE, IEC

Model Name	Market	Remark
MZ-42PZ44 MZ-42PZ45V	EU	Safety: IEC60065,IEC60095 EMI : EN55013 -Conducted / Radiation
RZ-BA50		EMI : EN55013 (Antenna Terminal Voltage) EMS : EN55024
MT-42PZ44 MT-42PZ45V MT-42PZ46	N-EU	Safety : IEC60065,IEC60095 EMI : EN55013 -Conducted / Radiation
RT-BA50		EMI : EN55013 (Antenna Terminal Voltage)

■ General Specification

No	Item	Specification		Remark
1	Display Screen Device	42inch wide Colour Desplay Module		PDP
2	Aspect Ratio	16 : 9		
3	PDP Module	PDP42V5####, Fish Bone		LGE
4	Screen Filter	45% Total light ransmittance		Maker : NBK (E-Mesh)
5	Operating Environment	1) Temp. : 0 ~ 40 °C		LGE Mark SPEC
		2)Humidity : below 85%		
6	Storage Environment	1) Temp. : -20 ~ 60 °C		
		2)Humidity : below 85%		
7	Input Voltage	110 ~240V~, 50/60Hz	MURADA	MZ-42PZ44/45
			SONY	
			SANKEN	

■ Model Specification

(1) MZ-42PZ4x (MZ-42PZ44/45)

No	Item	Specification	Remark
8	Market	EU	
9	RGB Input	VGA, SVGA, XGA, SXGA 60Hz	
10	DVI Input	Digital RGB Input	
11	Video Input System	PAL, SECAM, NTSC	
12	S-Video Input	PAL, SECAM, NTSC	
13	Component Input	480i, 480p, 576i, 576p	
14	Audio Input	L/R 2 group	
15	Wired Control	Discrete IR	

(2) RZ-BA50

No	Item	Specification	Remark
16	Market	EU	
17	Input Voltage	DC 12V ⎓	
18	Broadcasting system	PAL B/ G/ I/ D/ K, SECAM L/ L”	
19	Receiving system	Upper Heterodyne	
20	Scart Jack	PAL, SECAM	

(3) MT-42PZ4x (MT-42PZ44/45V/46)

No	Item	Specification	Remark
21	Market	N-EU	
22	RGB Input	VGA, SVGA, XGA, SXGA 60Hz	
23	DVI Input	Digital RGB Input	
24	Video Input System	PAL, SECAM, NTSC	
25	S-Video Input	PAL, SECAM, NTSC	
26	Component Input	480i, 480p, 576i, 576p, 1080i, 1152i	
27	Audio Input	L/R 2 group	
28	Wired Control	Discrete IR	

(2) RT-BA50

No	Item	Specification	Remark
29	Market	N-EU	
30	Input Voltage	12V⎓	
31	Broadcasting system	PAL B/ G/ I/ D/ K, NTSC	
32	Receiving system	Upper Heterodyne	
33	Video In/ Out System	PAL, SECAM, NTSC	

■ Feature and Function

No	Item		Specification		Remark
1	Remote controller code		NEC Code		
2	Remote control		1) Wireless Remote Control		
			2) Wired Remote Control -RCA AV B'D -Tuner Box		
3	Local Key		Menu, Input select ■, VOL◀, VOL▶ Up▲/ Down▼, Power (Main Power)		
4	Set up method		Wall Mount/ Desk top		
			Pivot (Optional)		Pivot model
5	Feature (MNT)	RGB input - D - Sub 15 pin	1	RGB PC Input - VGA ~ 85Hz - SVGA ~ 85Hz - XGA ~ 75Hz - SXGA ~ 60Hz	
				RGB - DTV Input -480p/ 60Hz -576p/ 50Hz -1080i/ 50Hz -1152i/ 50Hz	MT-42PZ4x
			1	DVI - D (Digital RGB)	

No	Item		Specification		Remark
5	Feature (MNT)	RGB out - D - Sub 15pin	1	RGBHV	
		Audio input - Phone Jack	1	L/ R For RGB Input	
		RS-232C - D - Sub pin	1	115200bps	
		External Speak output	1	L/ R	SPK Output
		Expanded Control	1	Tuner Box Control	36Pin
6	RCA Type AVB'D	Component input (Y/ P_B/ P_R, Y/Cb/Cr)	1	480i/ 480p/ 576i/ 576p	MZ-42PZ4x
				480i/ 480p/ 576i/	MT-42PZ4x
				480i/ 480p/ 576i/ 576p/ 1080i/ 1152i	Australia
		Video Input(CVBS)	1	PAL, SECAM, NTSC	
		Audio Input	2	L/ R For Video/ S- Video L/ R For Component	
		IR Jack	1	Discrete IR	
7	Scart Type Tuner model	ANT In (RF) - Tuner	1	PAL- BG/ DK/ I, SECAM-L/L'	RZ-BA50 - Follow Scart In/ Out Spec
		AV In/ Out -Scart Jack	2	Scart 1 (TV Out) Scart 2 (MNT Out)	- Auto AV (Scart 2 priority)
		IR Jack	1	Wired Remote Control	
		DC Jack	1	DC 12V In	
		Expanded Control	1	36Pin	
8	RCA Type Tuner model	ANT In (RF)	1	PAL-BG/ DK/ I, NTSC	RT-BA50
		AV In/ Out (CVBS) -RCA Jack	2	PAL, SECAM, NTSC Input	
				AV Output	
		IR Jack	1	Wired Remote Control	
		DC Jack	1	DC 12V In	
		Expanded Control	1	36Pin	
9	Scart Type AV B'D	Scar Jack	2	Vin, FB, RGB in, L/R in 1) TV out non-opposition 2) Auto AV non-function	
				Vin, Lin, R in, V out, L out, R out 1) MNT out of Tuner Box non-opposition 2) Auto AV non-opposition	
		S- Video Input	1	PAL, SECAM, NTSC	
		Audio Input	1	L/R For S-Video	

No	Item		Specification	Remark
10	MENU (picture)	Picture Status Mode	PSM ▶Dynamic, Standard, Mild, User	4 - Mode - Default : Standard
		Color Status Mode	CSM ▶Normal (9,500 °K) ▶ Cool (12,000 °K) ▶ Warm (8,500 °K) ▶ User (RGB Control)	4 - Mode - Default : Normal
		Color Temperature User	▶ R, G, B	Each +/- 10 Step - Default : 0
			▶ Contrast, Brightness, Colour,	Default
			Sharpness ▶ Tint	Enable For NTSC 5 - Mode
11	MENU (Sound)	Sound Status Mode	SSM ▶ Flat, Speech, Movie, Music, User	- Default : Flat - Default : OFF
		AVL(Auto Volume limit)	On Off	
		User	▶ Treble, Bass, Balance	Default : 12:00
12	MENU (Time)	Clock	User Setting	Default : 12:00
		Off Time	Off On : User Setting (Time)	Default : 12:00/ Vol. 30
		On Time	Off On : User Setting (Time/ Volume)	Default : Off
		Auto Sleep	Off On	Default : English
13	MENU (special)	Language (For OSD)	EU 5 languages ▶ English, French, German, Spanish, Italian	- etc. PR standard Austailia/ China/ russia
			3 languages ▶ English, Chinese, Russian	Default : Off
		Child Lock - Local key Lock	On Off	--> Module Spec
		ISM Method	▶ Normal : ISM action On ▶ Orbiter : 2 min/ 2pixel a cycle ▶ Inversion : 30 min cycle On/ Off ▶ White Wash : Any key Off	Default : 1
		SET ID (RS- 232C control ID)	1 ~ 99	Default : Off
		Low Power	On : 30% ↓ Off	

No		Item		Specification	Remark
		OSD Rotate (Optional)		▶ Normal ▶ Rotate : OSD Rotate	Default : Normal Enable For Pivot
14	MENU (Screen)	Auto Configure		RGB PC	
		ARC		Auto : RF/ AV/ S-AV/ Component-i 4:3 : All 16:9 : All 14:9 : RF/ AV/ S-AV/ Component-i ZOOM : RF/ AV/ S-AV/ Component-i	Disable For DW Mode
		Zoom In/ Out		Zoom in/ Out (100%~ 300%)	Default :100
		Position		-RGB Input -Component Input (480p/ 576p / 1152is)	
		Manual		Phase : 0~ 31 Colork : -50~ +50	RGB mode only
		Screen Adj.		TV / VCR	RF, AV, S- Video
		Reset		O	To Initialize for user data
		VGA Mode		640 x 480 848 x 480 852 x 480	WVGA correspondence RGB/ DVI Mode
		YNR		On Off	Luminance Noise Reduction
15	MENU (PIP/DW)	Input (Main)	MT-42PZ46	RGB ⟶ DBI	- Nothing AV B'D - Nothing Tuner Box
			1)MZ-42PZ4x 2)RZ-BA50	TV⟶AV1(EXP)⟶AV2(EXP)⟶AV⟶ S-VIDEO⟶COMPONENT⟶RGB ⟶ DVI	- RCA AV B'D - Scart Tuner Box
			MZ-42PZ4x	RGB⟶DVI⟶AV1⟶AV2⟶S-VIDEO	- Scart AV B'D
			1)MT-42PZ4x 2)TE-BA50	TV⟶AV(EXP)⟶AV⟶S-VIDEO ⟶COMPONENT⟶RGB⟶DVI	- RCA AV B'D - RCA Tuner Box
			MT-42PZ4x	RGB⟶DVI⟶COMPONENT⟶AV ⟶S-VIDEO	- RCA AV B'D
				TV⟶AV1(EXO)⟶AV2(EXP)⟶RG B⟶DVI	- Nothing AV B'D - Scart tuner Box
				TV⟶VIDEO(EXP)⟶RGB⟶DVI TV⟶AV1(EXP)⟶AV2(EXP)⟶AV1 ⟶AV2⟶S-VIDEO⟶RGB⟶DVI	- Nothing AV B'D - RCA Tuner Box

No	Item			Specification		Remark
15	MENU (PIP/DW)	Input (Main)		TV→AV1(EXP)→AV2(EXP)→AV1 →AV2→S-VIDEO→RGB→DVI		- Scart AV B'D - Scart Tuner Box
				TV→AV(EXP)→AV1→AV2→ S-VIEDO→RGB→DVI		- Scart V B'D - RCA Tuner Box
		DW		OFF, DW1, DW2		
		PIP		OFF, ON		
		Sub Input		Equal Main Input * Display Condition 1) Identity of Input Source is not Main/ Sub Display 2) Don't allow PIP/DW between graphic signals of 480p ↑ 3) When this condition appear,swap the Main/Sub screen and old input sourse.		
				Main Input	Available Sub Input	
				RGB, DVI Component 480 ↑	TV, AV, S-VIDEO, SCART, Component 480i	
				TV, AV, S-VIDEO SCART Component 480i	All (Except Limitation)	
		Win, Size		Variable		Main/Sub screen All
		Win, Position		Variable		PIP Screen Only
		PIP ARC		4:3, 16:9		
16	MENU (CH)	Auto Program		System, Storage(0~99), Start		- With Tuner Box - Gray Except TV Mode - Gray For MNT
		Manual Program		Storage(0~99), System, CH., Fine, Search, Name		
		Program Edit		Del, Copy, Move, Skip		
17	Hot Key (Remote)	Input Select	Multimedia Input Select	Component→RGB→DVI		
				Sequentially For Input Mode		Main Input sequence
		PIP/ DW		PIP→DW1→DW2→Off		
		SWAP		O (Main/Sub screen Swap)		
		I/ II/ *		SiF Control		For Tuner Boxs
		Relation Key except TEXT		O (TEXT action standard)		
		SPLIT ZOOM		2/ 4/ 9 division		
		ZOOM-, ZOOM+		100% ~ 300%		
		Power On		Power, Numberic(0~9), TV/ AV, Multimedia, PR +/-		
		Etc.		Numberic(0~9), ARC, PR+/-, VOL+/-, MUTE, PIP Input, PIP PR+/-, MENU, PSM, SSM		

No	Item		Specification	Remark
18	Adaptive	Comb Filter	4H Comb	VPC3230
		DCDI	O	FLI2300/ FLI231
		Film Mode	X (Option)	0
		Motion Detection	O	
		Noise Reduction	O	

■ Component Video Input (Y, P_B, P_R)

No	Resolution	H-freq (kHz)	V-freq (Hz)	Pixel clock (MHz)	Proposed
1	720 x 480	15.625	60.00	13.500	480I
2	720 x 480	31.250	60.00	27.027	480P
3	720 x 576	15.625	50.00	13.500	576I
4	720 x 576	31.250	50.00	27.027	576p
5	1920 x 1080	28.125	50.00	74.250	1080i
6	1920 x 1080 (+72)	31.250	50.00	74.250	1152i

■ RGB Input (PC)

No	Resolution	H-freq (kHz)	V-freq (Hz)	Pixel clock (MHz)	Proposed
PC					
1	640 x 350	31.468	70.09	25.17	EGA
2	640 x 350	37.861	85.08	31.50	EGA
3	720 x 400	31.469	70.08	28.32	DOS
4	720 x 400	37.927	85.03	35.50	DOS
5	640 x 480	31.469	59.94	25.17	VESA(VGA)
6	640 x 480	35.000	66.66	30.24	Macintosh
7	640 x 480	37.861	72.80	31.50	VESA(VGA)
8	640 x 480	37.500	75.00	31.50	VESA(VGA)
9	640 x 480	43.269	85.00	36.00	VESA(VGA)
10	848 x 480	31.5	60.00	33.516	WVGA
11	848 x 480	37.799	70.00	40.748	WVGA
12	848 x 480	39.375	75.00	42.628	WVGA
13	852 x 480	31.5	60.00	33.642	WVGA
14	852 x 480	37.799	70.00	40.900	WVGA
15	852 x 480	39.375	75.00	42.840	WVGA
16	800 x 600	35.156	56.25	36.00	VESA(SVGA)
17	800 x 600	37.879	60.31	40.00	VESA(SVGA)
18	800 x 600	48.077	72.18	50.00	VESA(SVGA)
19	800 x 600	46.875	75.00	49.50	VESA(SVGA)
20	800 x 600	53.674	85.06	56.25	VESA(SVGA)
21	832 x 624	49.725	74.55	57.28	Macintosh

No	Resolution	H-freq (kHz)	V-freq (Hz)	Pixel clock (MHz)	Proposed
24	1024 x 768	48.363	60.00	65.00	VESA(XGA)
25	1024 x 768	56.476	70.06	75.00	VESA(XGA)
26	1024 x 768	60.023	75.02	78.75	VESA(XGA)
27	1152 x 864	54.348	60.05	80.00	VESA(SXGA)
28	1152 x 864	63.995	70.01	94.20	VESA(SXGA)
29	1152 x 864	67.500	75.00	108.00	VESA(SXGA)
30	1152 x 870	68.681	75.06	100.00	VESA(SXGA)
31	1280 x 960	60.023	60.02	108.00	VESA(SXGA)
32	1280 x 1024	63.981	60.02	108.00	VESA(SXGA)

■ RGB Input (DTV)

No	Resolution	H-freq (kHz)	V-freq (Hz)	Pixel clock (MHz)	Remarks
1	1024 x 576	31.250	50.00	27.027	MT-42PZ4x
2	1920 x 1080	28.125	50.00	74.250	MT-42PZ4x
3	1920 x 1080 (+72)	31.250	50.00	74.250	MT-42PZ4x

■ PDP MODULE (PDP42V5####)

No	Resolution		Min	Type	Max	Unit	Remarks
1	Display area		920.1(H) x 518.4(V) +/- 0.5			Mm	
2	Outline dimension		1006(W) x 598(H) x 6(D) +/- 1			Mm	
3	Number of Pixels		852(H) x 480(V)				
4	Number of Grdations		256 steps For PC RGB				
5	Color Arrangement		RGB Vertical Stripes				Fish Bone Type
6	weight(net)		15.3	15.8	16.3	kg	
7	weight(gross)		106	111	116	Kg	Modules 5EA/ 1Box
8	Operating Environment		Temp : 0 ~ 40			Deg	
			Humidity : 20 ~ 80%			%	
9	Storage Enironment		Temp : -20 ~ 60 deg			Deg	
			Humidity : 10 ~ 90%			%	
10	Image stick	Starts time	4.5	5	5.5	Min	
	minimization moe	The minimum brightness reaching time	14	15	16	Min	

ADJUSTMENT INSTRUCTIONS

1. Application Object

These instructions are applied to all of the PDP monitor/ Tuner , RF-03FA chassis.

2. Notes

(1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test instrument.
(2) Adjustment must be done in the correct order.
(3) The adjustment must be performed in the circumstance of 25±5°C of temperature and 65±10% of relative humidity if there is no specific designation.
(4) The input voltage of the receiver must keep 220V, 60Hz in adjusting.
(5) The receiver must be operated for about 15 minutes prior to the adjustment.

¤ After receiving 100% white pattern, the receiver must be operate prior to adjustment.(Or white condition in HEAT-RUN mode)
¤Ł Enter into HEAT-RUN mode
- Select the HEAT-RUN OFF by pressing ADJ Key on Remote Control for adjustment.
- Press the VOL + Key in HEAT-RUN OFF. (OSD display HEAT-RUN WHITE and screen display 100% FULL WHITE PATTERN)

⁕ Set is activated HEAT-RUN without signal generator in this mode.
⁕ Single color pattern of HEAT-RUN mode uses to check PANEL.(RED/BLUE/GREEN)

[Caution] *If you turn on a still screen more than 20 minutes, a afterimage may be occur in the black level part of the screen.*

3. RGB Auto Cut-Off & MIN Bia Adjustment

(1) Input Full Back (0 Gray) signal which generated from Pattern Generator into CVBS and RGB1 Input part.
(2) Press POWER ON KEY on R/C for adjustment and select AUTO-CUT(Cut-off Auto Adjustment)
(3) Press Vol. + key and operate TO SET
(4) Screen adjustment starts with Full Black screen. Original Window screen will be presented about 3-5 seconds later. And if there is a mark of OK OSD, then the Auto Cut-off and Min-Bias adjustment will be completed.
(5) Pass to the next MAX Bias Adjustment after Adjustment.

⁕ Replace PDP Module or Power Board, adjust certainly Power PCB Assy Voltage.

● You can check whether circuit adjustment is operated well or not, as below.
(1) Display RGB1 to the Main picture, CVBS to the Sub picture in the TWIN PICTURE.
(2) To check the MIN-Bias, input Full Black (0 gray) signal into CVBS and RGB1 input part at the same time in the Pattern Generator.
(3) To check the MAX-Bias, input Full White (255 gray) signal into CVBS and RGB1 input part at the same time in the Pattern Generator.
(4) Compare Black Level with White Level by eyes. And if there is no Level difference, the adjustment is completed well.

● Data value, which adjusted in the board, is valid until the VSC Board is dissued and must be protected. For the protection of data, Micom does not permit any more adjustment after completion.
● In case of re-adjustment, operate First Value Setting.

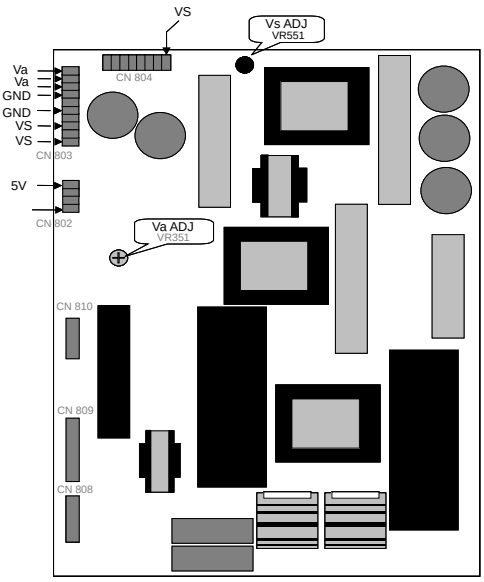
Each PCB Assy must be checked by the Check JIG Set before whole assembly. (Be careful the POWER PCB Assy not to damage to PDP Module)

4. POWER PCB Assy Voltage Adjustment (Va, Vs, Voltage Adjustment)

4-1. Test Equipment

D.M.M 1EA

4-2. Connection Diagram for Measuring



<Fig 1> Connection Diagram of MURATA Power Adj. for Measuring

4-3. Adjustment Method

(1) Va Adjustment
¤ After receiving 100% white pattern, HEAT RUN.
¤Ł Connect + terminal of D.M.M to Va pin of CN803 and connect – terminal to GND pin of CN803.
¤Ø After turning the VR351, voltage of D.M.M adjustment as same as Va voltage which on label of panel Right/Top. (Deviation : ±0.5V)

(2) Vs Adjustment

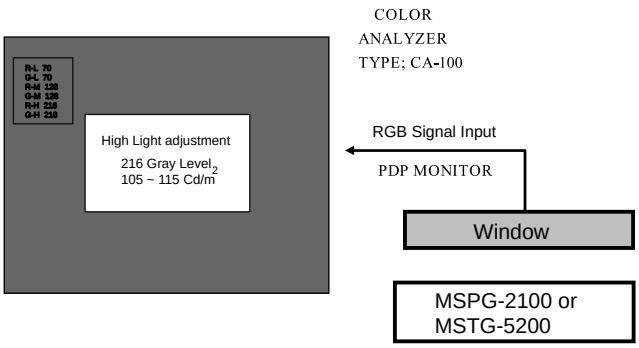
- ¤ Connect + terminal of D.M.M to Vs pin of P805 and connect – terminal to GND pin of CN803.
- ¤Ł After turning the VR551, voltage of D.M.M adjustment as same as Vs voltage which on label of panel Right/Top. (Deviation : ±0.5V)

5. Adjustment of White Balance

5-1. Required Equipment

Color analyzer (CA-100 or same product)

5-2. Connection Diagram of Equipment for Measuring (Manual Adjustment)



<Fig 2> Connection Diagram of Manual Adjustment

5-3. Adjustment of White Balance

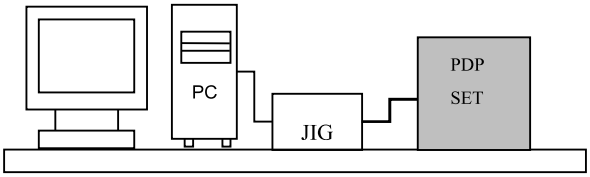
- Operate the Zero-calibration of the CA-100, then stick sensor to PDP module surface when you adjust.
- For manual adjustment, it is also possible by the following sequence.

(1) Select WHITE PATTERN of HEAT RUN mode by pressing POWER ON KEY on remote control for adjustment then operate HEAT RUN more than 10 minute.
(2) Supply 216Gray Level, 50% size length and breadth signal to RGB input. (Refer to Fig 2)
(3) To adjust High Light, stick sensor to 216Gray Level(or 105~115 Cd/m2) Pattern, press ADJ Key on R/C for adjustment and press ▲, ▼ on R/C in adjustment mode to select R-L or G-L, press VOL +, - Key and adjust it until color coordination becomes as below.
[MZ-42PZ4x, MT-42PZ4x]
X: 0.270±0.003, Y: 0.267±0.003
Color temperature: 13,000°K±500°K
(4) Exit adjustment mode using ■ Key.

6. DDC Data Input

6-1. Required Test Equipment

(1) A jig for adjusting PC, DDC. (PC serial to D-sub. Connection equipment)
(2) S/W for writing DDC(EDID data write & read)
(3) D-Sub 15P cable, D-Sub to DVI Connector (Connect to DVI Jack)



6-2. Setting of Device

6-3. Preparation for Adjustment

(1) Set devices as above and turn the PC, jig on.
(2) Put S/W for writing DDC (EDID data write & read) into operation. (operated in DOS mode.)

6-4. Sequence of Adjustment

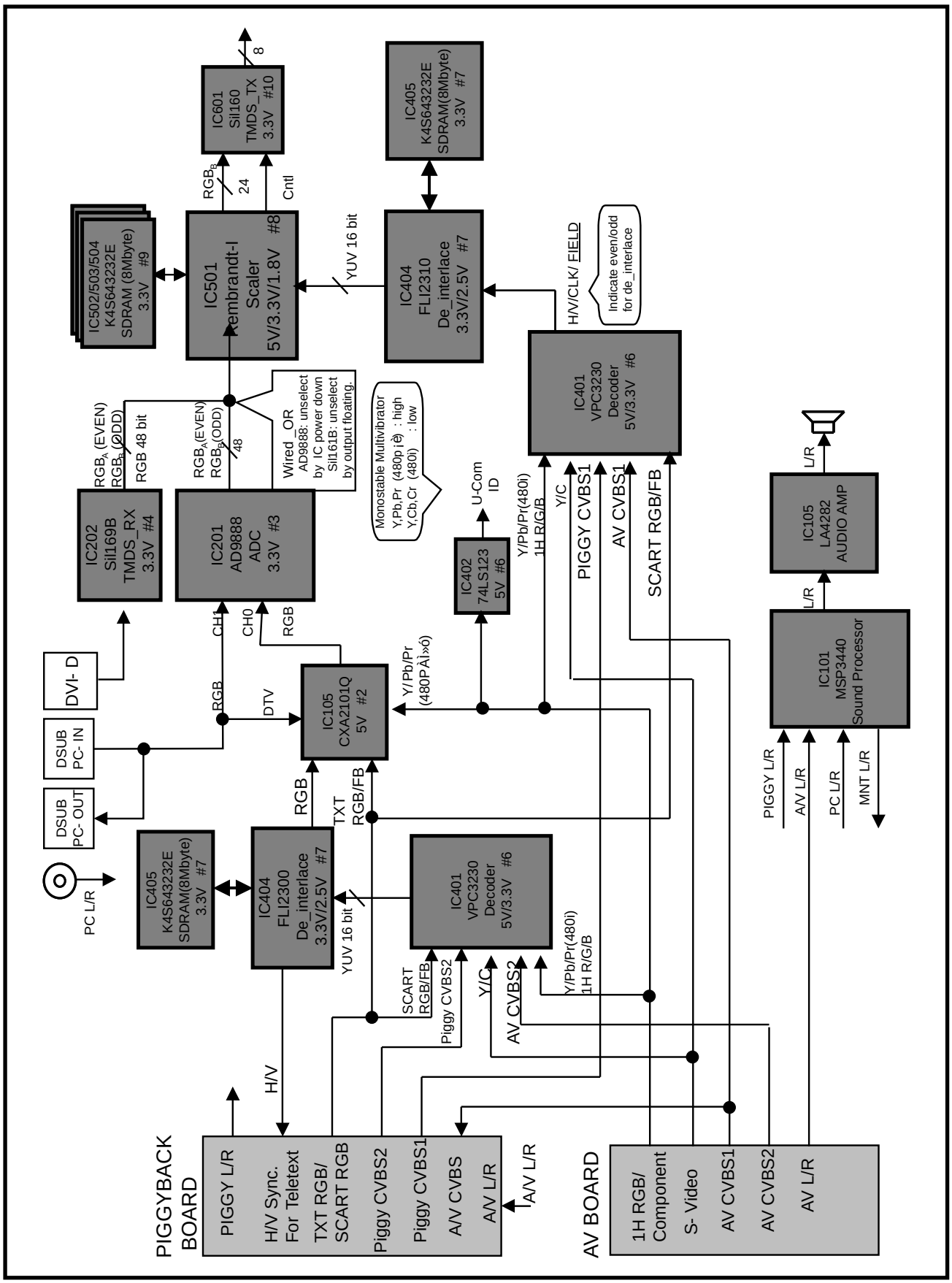
(1) DDC Data Input for Analog-RGB

- ¤ Put the set on the table and turn the power on.
- ¤Ł Connect PC Serial to D-sub 15P Cable of JIG for DDC Adjustment to RGB terminal (D-Sub 15Pin).
- ¤Ø Operate S/W for DDC record and select DDC Data for Analog RGB in Model Menu.
- ¤Œ Operate EDID Write command.
- ¤º Operate EDID Read command and check whether Check Sum is OK.
- ¤ If Check Sum is NG, repeat c) ~ d).
- ¤ If Check Sum is OK, DDC Data for Analog-RGB input is completed.

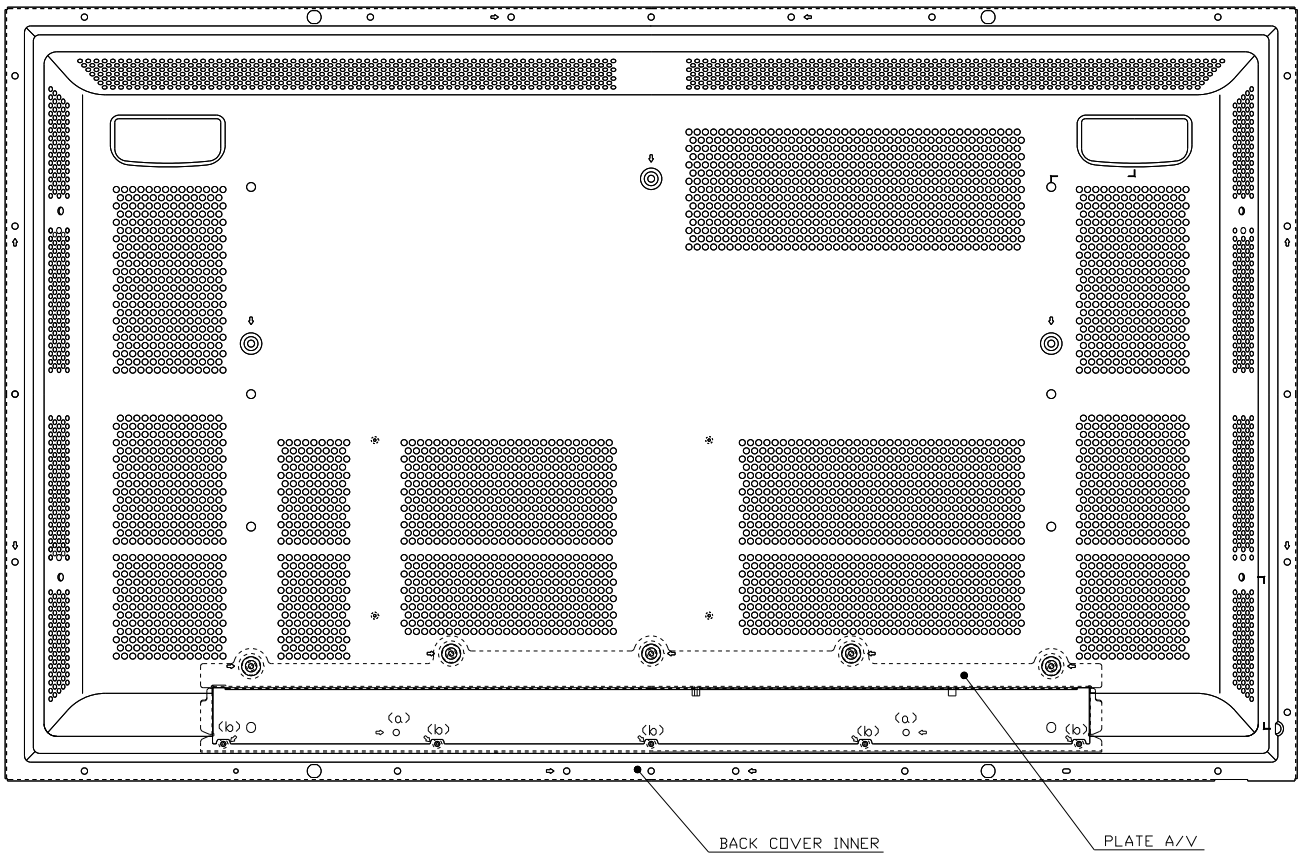
(2) DDC Data input for Digital-RGB

- ¤ Connect PC Serial to DVI Cable of JIG for DDC Adjustment to RGB2 terminal (DVI Jack).
- ¤Ł Operate S/W for DDC record and select DDC Data for Digital RGB in Model Menu.
- ¤Ø Operate EDID Write command.
- ¤Œ Operate EDID Read command and check whether Check Sum is OK.
- ¤º If Check Sum is NG, repeat c) ~ d).
- ¤ If Check Sum is OK, DDC Data for Digital-RGB input is completed.

BLOCK DIAGRAM



ASSEMBLY METHOD



1. MODULE of <a> part and PLATE A/V unite two things.

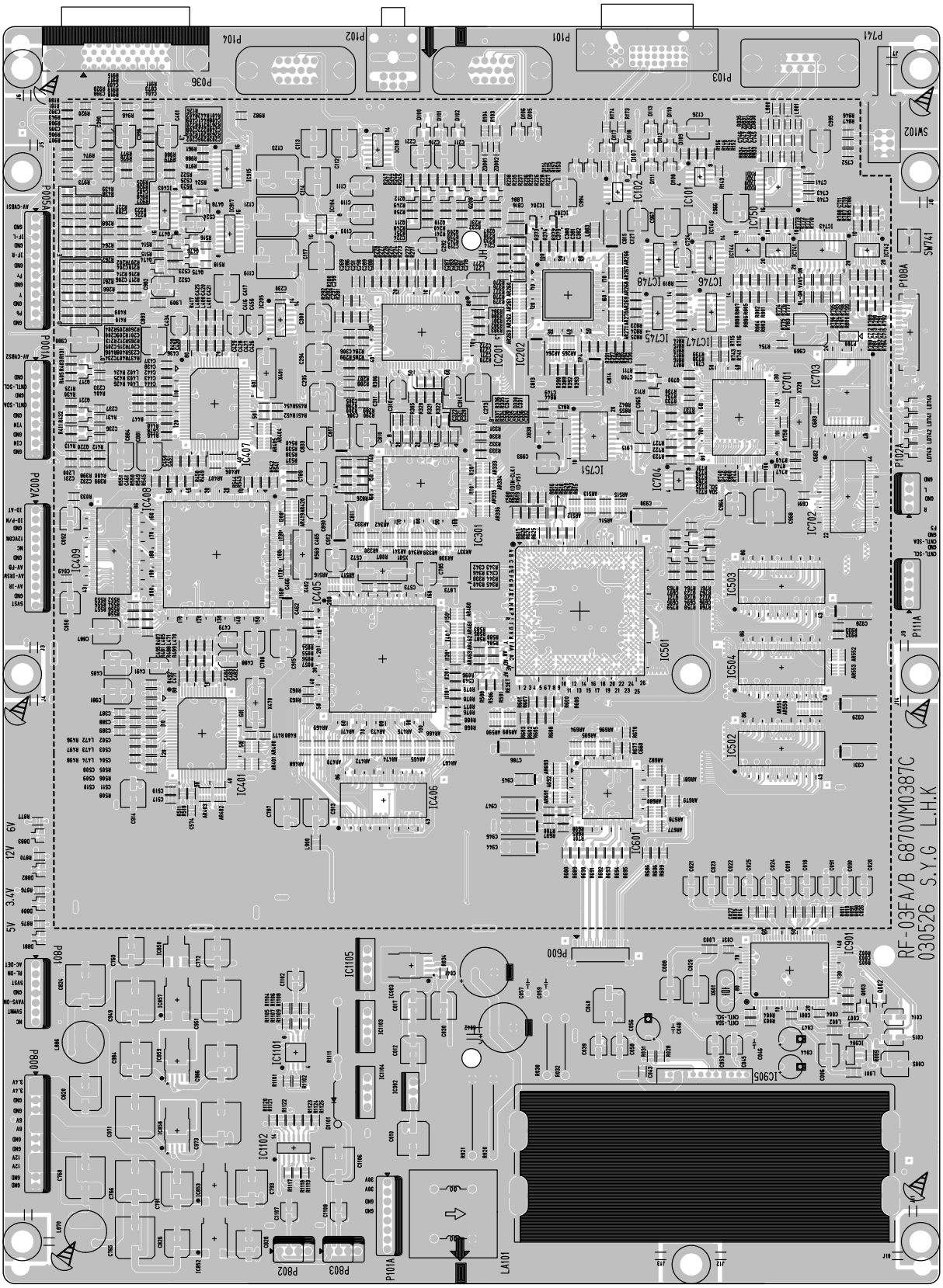
2. Unite after put on BACK COVER INNER of <b> part .

3. Disassembly is opposite to Assembly.

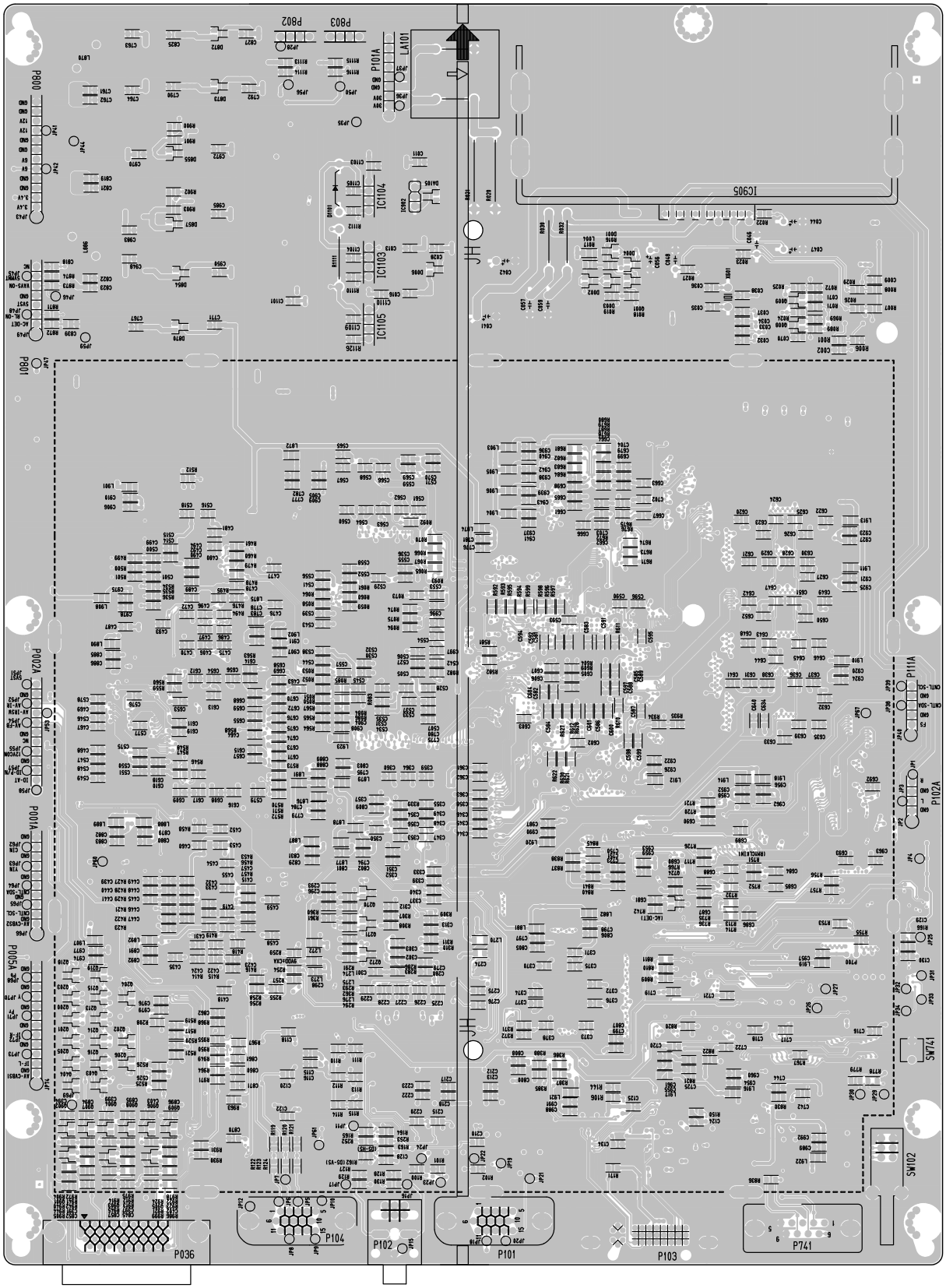
NOTE> Working sequence of <a> Part is different from <b> Part.

PRINTED CIRCUIT BOARD

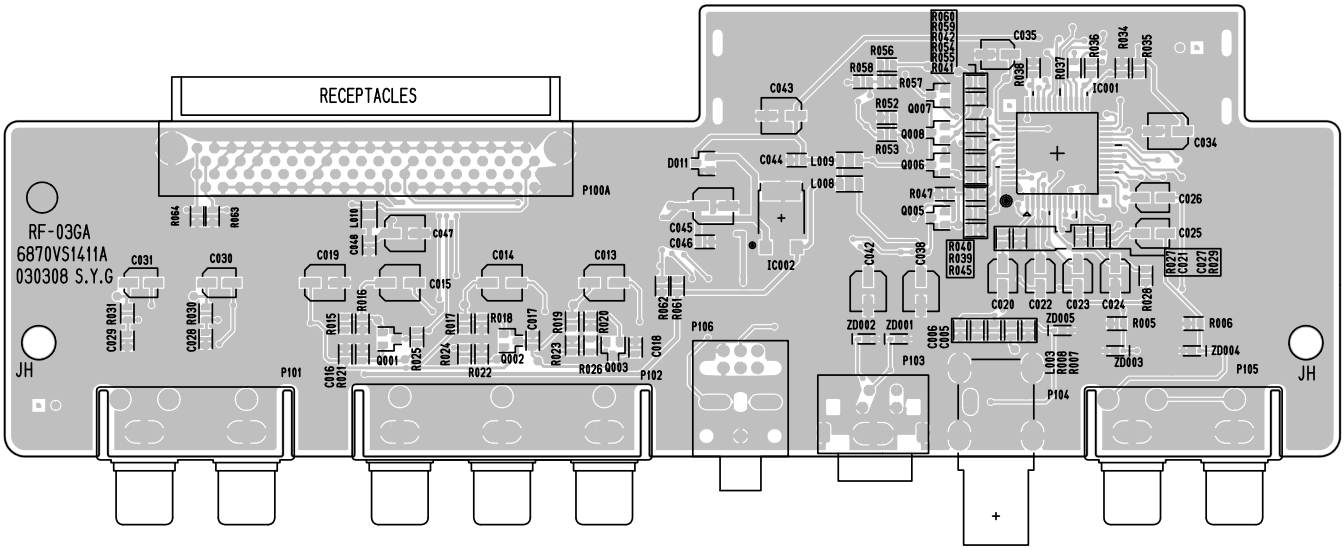
MAIN (TOP)



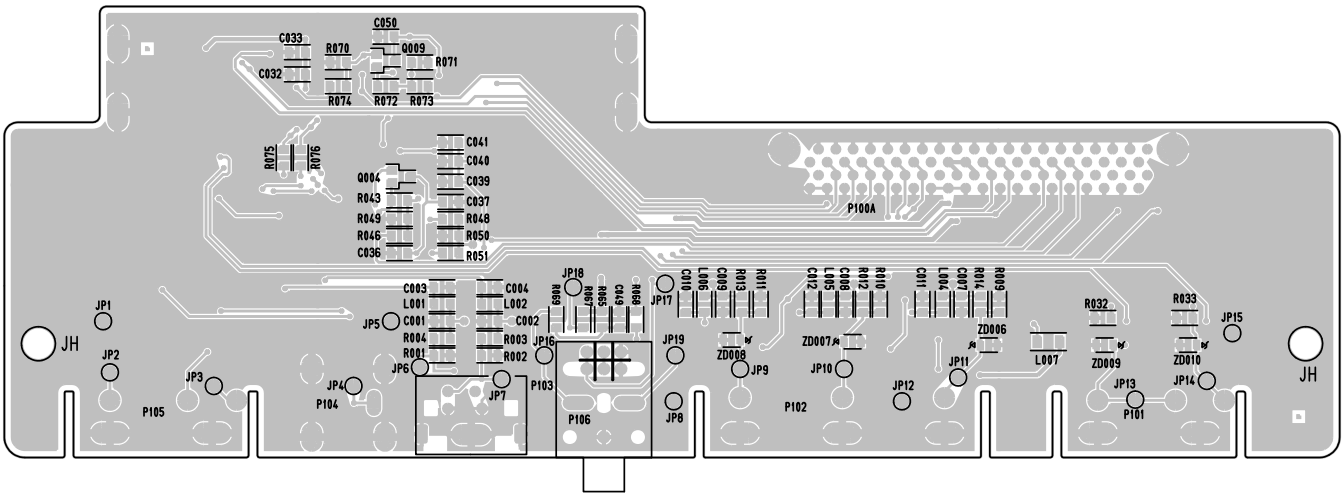
MAIN (BOTTOM)


P802
P803
P101A
LA101
P800
IC1104
IC1103
IC1105
IC905
P801
P102A
P111A
P102A
P001A
P005A
SW741
SW102
P036
P104
P102
P101
P103
P741

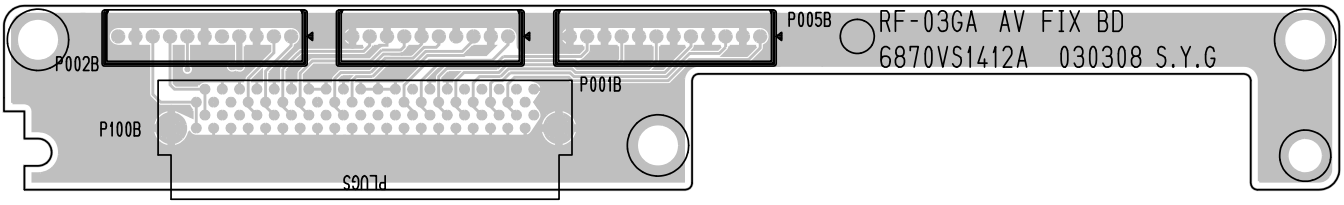
AV BOARD (TOP)



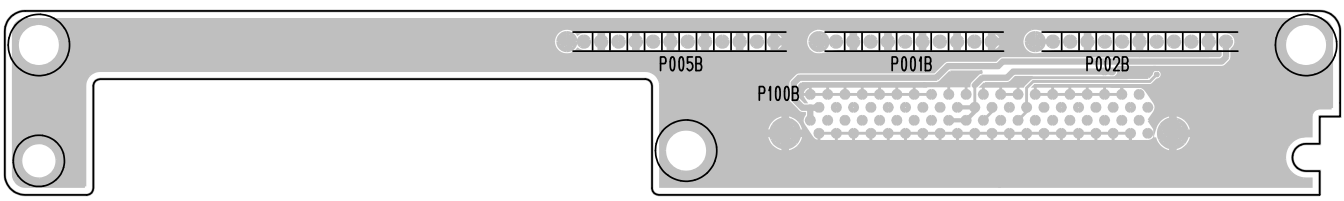
AV BOARD (BOTTOM)



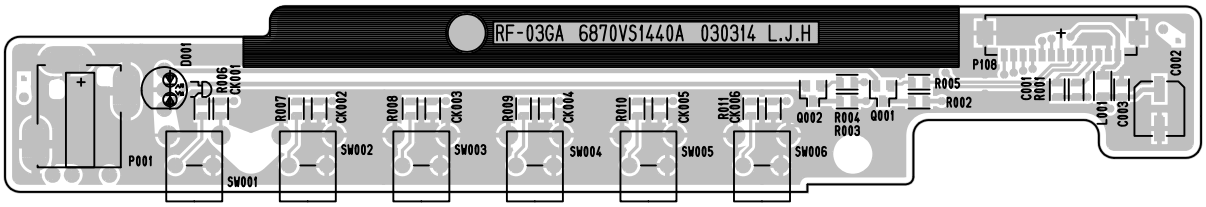
AV FIX BOARD (TOP)



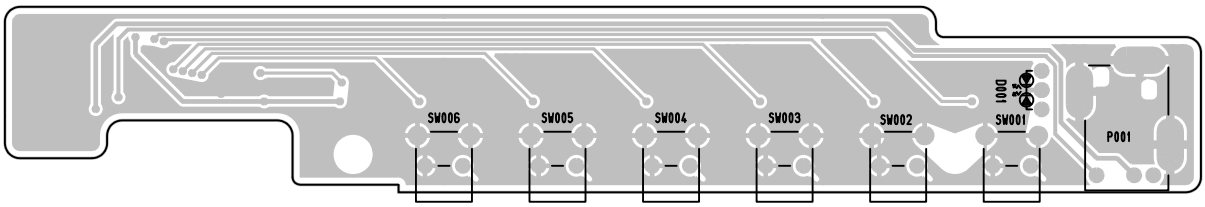
AV FIX BOARD (BOTTOM)



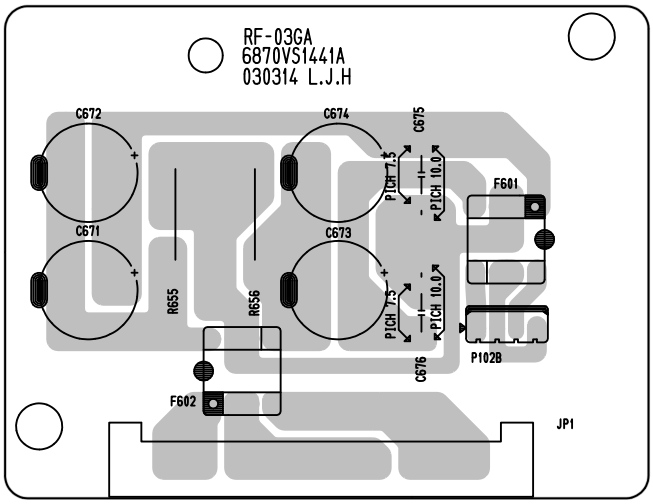
CONTROL BOARD (TOP)



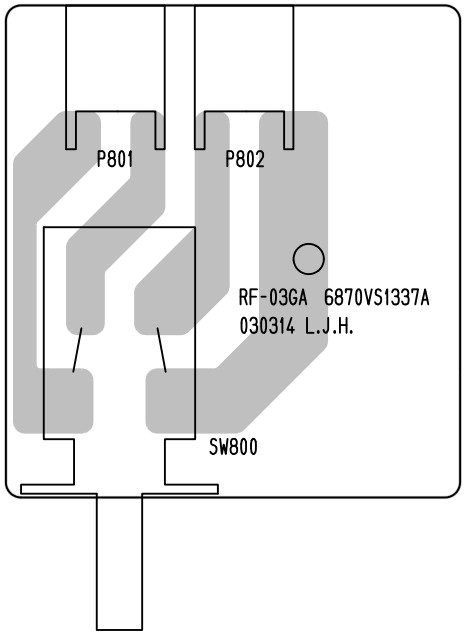
CONTROL BOARD (BOTTOM)



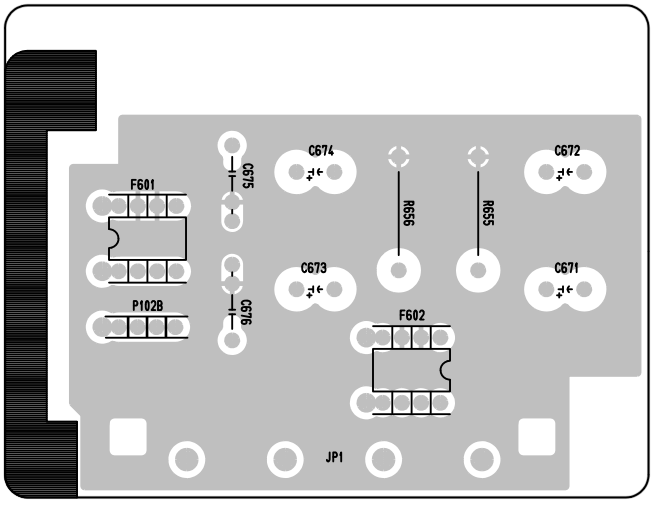
SPEAKER (TOP)



POWER SWITCH

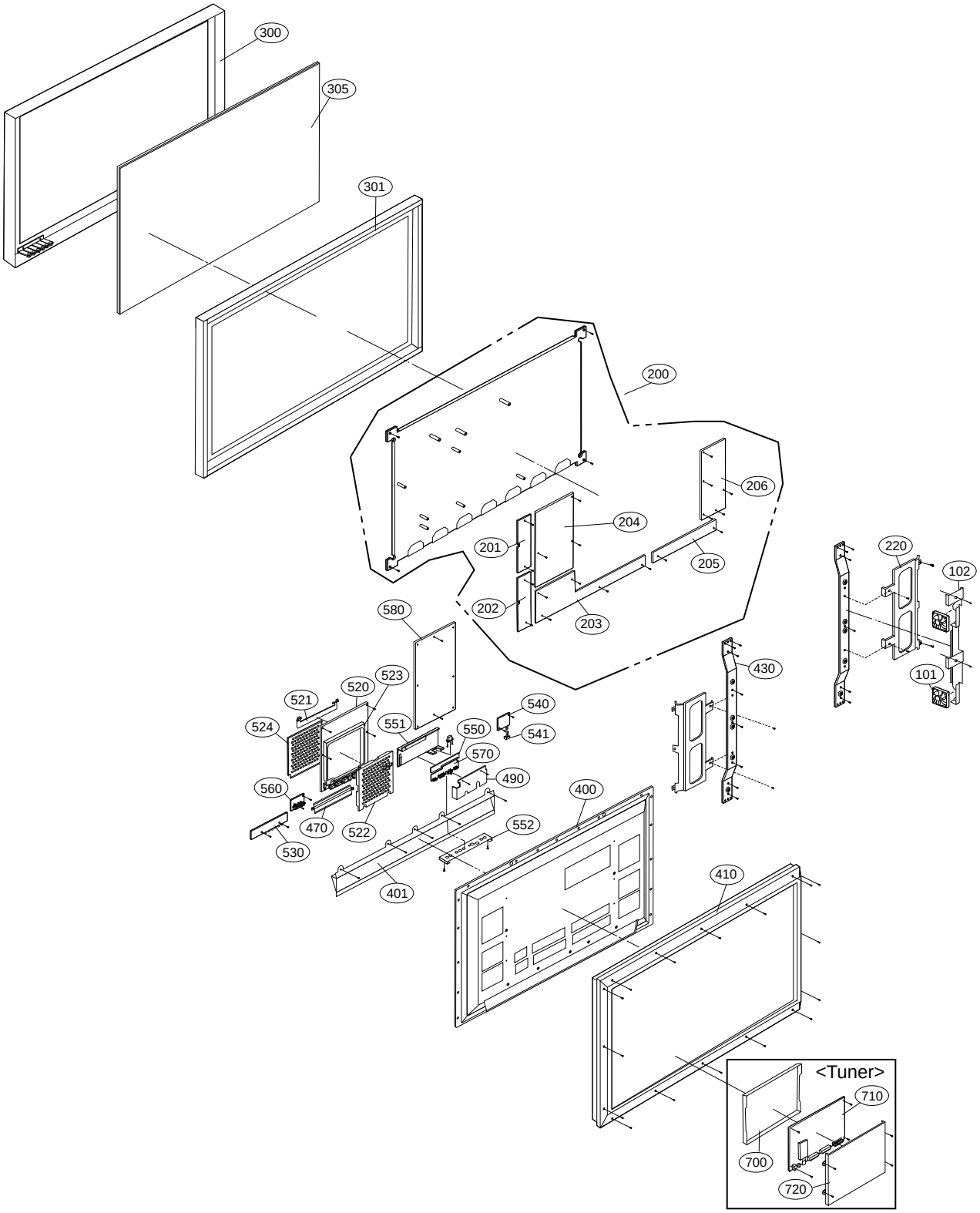


SPEAKER (BOTTOM)



MEMO

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	Part No.	Description
101	5900V04009A	FAN,DC 412F/39M PAPST 40*40*10 12V/45MA 4300RPM 17 PDP 42”
102	4980V00985B	SUPPORTER, FAN EGI SKD
200	6348Q-E036A	PDP, 42” 16:9 852*480 PDP42V50000(KK MODEL), FOR INTERCOMPANY DOMESTIC, WOODEN PALLET
	6348Q-E038B	PDP, 42” 16:9 852*480 PDP42V50330.ADLGA
201	6871QDH051A	PWB ASSEMBLY,DISPLAY YDRV ASSY HAND INSERT 42SD5_YDRV_TOP_TI_4LAYER
202	6871QDH052A	PWB ASSEMBLY,DISPLAY YDRV ASSY HAND INSERT 42SD5_YDRV_BTM_TI_4LAYER
203	6871QCH025A	PWB ASSEMBLY,DISPLAY CTRL ASSY HAND INSERT 42SD5 CTRL BD(LPCMC1121)
	6871QCH031C	PWB(PCB) ASSEMBLY,DISPLAY CTRL ASSY HAND INSERT 42V5 TMDS LGPCMV1222H
204	6871QYH027A	PWB ASSEMBLY,DISPLAY YSUS ASSY HAND INSERT 42SD5_SEPERATED_YSUS
	6871QYH027B	PWB(PCB) ASSEMBLY,DISPLAY YSUS ASSY HAND INSERT 42V5 SONY STANDRAD
205	6871QRH034A	PWB ASSEMBLY,DISPLAY XRRT ASSY HAND INSERT 42SD5_XR_SEPERATE(4 LAYER)
206	6871QZH030A	PWB ASSEMBLY,DISPLAY ZSUS ASSY HAND INSERT 42SD5(YZ SEPARATE)
	6871QZH030B	PWB(PCB) ASSEMBLY,DISPLAY ZSUS ASSY HAND INSERT 42V5 SONY STANDARD
210	4980V00460A	SUPPORTER, VERTICAL MN-42PZ40 .
	4980V00460B	SUPPORTER, MODULE EGI SKD
220	4980V00464B	SUPPORTER, SPK SBHG
	4980V00464C	SUPPORTER, SPK SBHG MT-42PZ41V
300	3091V00B01S	CABINET ASSEMBLY, MZ-42PZ44 KK MODULE
	3091V00B01P	MZ-42PZ43VS RE02RA SKD
	3091V00B01T	CABINET ASSEMBLY, MZ-42PZ44 KK VGA SKD
301	3110V00229A	CASE, ASSY MN-42PZ40
	3110V00229B	CASE, ASSY MT-42PZ41V LGESY SKD
305	3790V00281E	FILTER(MECH) MN-42PZ40S 1142G03E GLASS NBK MESH SINGLE AR
	3790V00709B	FILTER(MECH), MN42PZ41 LGM42-01 MITSUI 42” ETCHING MESH GLASS FILTER
400	3809V00A47K	BACK COVER ASSEMBLY
	3809V00A47M	BACK COVER ASSEMBLY, MZ-42PZ45V SKD
401	3301V00010G	PLATE ASSEMBLY, A/V
	3301V00010R	PLATE ASSEMBLY, A/V 3300V00205D WALES SKD
410	3809V00A58F	BACK COVER ASSEMBLY
	3809V00A58G	BACK COVER ASSEMBLY, MZ-42PZ44 KK VGA SKD
470	4814V00344C	SHIELD, PLATE MZ-42PZ44 RF03FA ET SUSTAIN
	4814V00344D	SHIELD, PLATE MZ-42PZ44 RF03FA ET SKD
	4814V00344F	SHIELD, PLATE MZ-42PZ44 RF03FA ET SKD
490	4814V00309B	SHIELD, COVER RJ-42PZ40 RF02KC AL AC SOCKET
	4814V00309D	SHIELD, MN-42PZ40 RF02RA AL SKD
520	6871VMMQ79A	PWB(PCB) ASSEMBLY,MAIN RF-03FA MT NORMAL
	6871VMMQ79C	PWB(PCB) ASSEMBLY,MAIN RF-03FA RUSSIA
	6871VMM498B	PWB(PCB) ASSEMBLY,MAIN RF03FA MANUAL VSC PIGGY BACK
522	4814V00357C	SHIELD, CASE MZ-42PZ44 SBHG TOP PRESS
523	4814V00358C	SHIELD, CASE MZ-42PZ44 SBHG MIDDLE PRESS
524	4814V00359C	SHIELD, CASE MZ-42PZ44 SBHG BOTTOM PRESS
530	6871VSMU44A	PWB ASSEMBLY,SUB CONT RF03GA MU-42PZ44
540	6871VSMV04A	PWB ASSEMBLY,SUB PSW RF03GA MU-42PZ44
541	5020V00666A	BUTTON, POWER MT-42PZ41V ABS, AF-303S 1KEY
	5020V00666C	BUTTON, POWER MT-42PZ41V ABS, AF-303S 1KEY LGESY SKD
550	6871VSMU96A	PWB ASSEMBLY,SUB INTER RF03FA FIX B/D ASSY
551	4980V00465D	SUPPORTER, AV INTERFACE SBHG MU-42PZ41
	4980V00465F	SUPPORTER
552	4980V00748C	SUPPORTER AV INTERFACE
	4980V00748J	SUPPORTER, AV INTERFACE EGI MZ-42PZ44 SKD
560	6871VSMU45A	PWB ASSEMBLY,SUB SPK RF03GA MU-42PZ44
570	6871VSMU53B	PWB ASSEMBLY,SUB A/V RF03FA PIGGYBACK-RCA
580	3501V00149A	BOARD ASSEMBLY, POWER MZ42PZ44 RF03FA MPF7407 MURATA 42KK
580	3501V00149B	BOARD ASSEMBLY, POWER MT42PZ44 RF03FA MPF7407 MURATA 42KK
TUNER (RT/RZ-BA50)		
700	3110V00237E	CASE, TUNER RZ-BA50 EGI BOTTOM ASSY
	3110V00237F	CASE, TUNER RT-BA50 EGI BOTTOM ASSY
710	6871VMM499B	PWB ASSEMBLY,MAIN RF03FA PIGGYBACK STB-SCART
	6871VMM500C	PWB ASSEMBLY,MAIN RF03FA PIGGYBACK STB-SCART
720	3110V00242E	CASE, TUNER RZ-BA50 EGI TOP ASSY
	3110V00242F	CASE, TUNER RT-BA50 EGI TOP ASSY

REPLACEMENT PARTS LIST (MONITOR)

LOCA. NO	PART NO	DESCRIPTION
IC		
IC001	0ISO208900A	IC, CXA2089Q 48QFP BK A/V SWITCH
IC002	0IMCRFA010A	IC, KA7809R, FAIRCHILD 2P D-PAK, R/TP REGULATOR
IC101	0IAL242110A	IC, AT24C21-10SI-2.5 8P,SOP TP 1K EEPROM
IC102	0IAL242110A	IC, AT24C21-10SI-2.5 8P,SOP TP 1K EEPROM
IC103	0IMCRTI003A	IC, SN74HCT08D TEXAS INSTRUMENT 16P R/TP
IC104	0IPRPBB005A	IC, OPA3692IDBQ BUR BROWN 16PIN SSOP R/TP
IC1101	0IDS162100B	IC, DS1621V 8P SOIC ST THERMOSTAT -
IC1102	0IMCRPH015A	IC, 74LVC32AD PHILIPS 14P SOT108-1 R/TP
IC1103	0ISH092100B	IC, PQ09RD21 4SIP ST REGULATOR -
IC1104	0ISH122100B	IC, PQ12RD21 4SIP ST REGULATOR -
IC201	0ISO210100B	IC, CXA2101AQ 80P,QFP BK VIDEO SIGNAL
IC202	0IPRPTI001A	IC, TFP401PZP TEXAS INSTRUMENT 100,TQFP R/TP
IC205	0IMCRTI003A	IC, SN74HCT08D TEXAS INSTRUMENT 16P R/TP
IC301	0IMCRAD003A	IC, AD9888KS-140 ANALOG DEVICE 128P MQFP
IC401	0IIT323000E	IC, VPC3230D C5 80P QFP TRAY VIDEO
IC403	0IFA741230A	IC, DM74LS123MX 16SOP TP DUAL RETRIG.
IC405	0IMCRGN001B	IC, FLI2310BC GENESIS 208P PQFP
IC406	0IMMRHY033A	IC, HY57V643220C(L)T-6 HYNIX 86P TSOP
IC407	0IIT323000E	IC, VPC3230D C5 80P QFP TRAY VIDEO
IC408	0IMCRGN002B	IC, FLI2300BC GENESIS 208P PQFP
IC409	0IMMRHY033A	IC, HY57V643220C(L)T-6 HYNIX 86P TSOP
IC501	0IMCROT001A	IC, REMBRANT-1A OPLUS TECHNOLOGIES LTD 352BALL
IC502	0IMMRHY033A	IC, HY57V643220C(L)T-6 HYNIX 86P TSOP
IC503	0IMMRHY033A	IC, HY57V643220C(L)T-6 HYNIX 86P TSOP
IC504	0IMMRHY033A	IC, HY57V643220C(L)T-6 HYNIX 86P TSOP
IC601	0IS5160000A	IC, SII160 100 TQFP ST PANELLINK
IC701	0IMCRRS001A	IC, R8820LV RDC SEMICONDUCTOR LTD 100P PQFP
IC702	0IMMRSS064A	IC, K6R4016V1D-TC10 44P TSOP2-400BF R/TP 4M(256K*16)
IC703	0IMMRMR006A	IC, COPY MX29LV160TTC-70 MACRONIX 48P TSOP R/TP
IC704	0IMMRAL025A	IC, AT24C32AN-10SI-2.7 ATMEL 8PIN SOP TP 32K 3.3V
IC741	0IMCRFA013A	IC, 74LCX244MTC FAIRCHILD 20P TSSOP R/TP
IC742	0IMCRFA013A	IC, 74LCX244MTC FAIRCHILD 20P TSSOP R/TP
IC743	0ITI745740M	IC, SN74HC574NSR 14P,SOP TP D-TYPE EDGE
IC744	0IMCRPH017A	IC, 74LVC574APW 20P SOT360-1 R/TP D-TYPE FLIP-FLOP
IC745	0IPH740800L	IC, 74LVT08D 14SOP R/TP LOW VOLTAGE AND DI-32Q82
IC746	0IMCRPH015A	IC, 74LVC32AD 14P SOT108-1 R/TP QUAD 2-IN OR GATE
IC747	0IMCRPH016A	IC, 74LVC139D PHILIPS 16P SOT109-1 R/TP
IC748	0IMCRPH014A	IC, 74LV132D 14P SOT108-1 R/TP QUAD 2-IN
IC749	0IKE702700D	IC, KIA7027AF 3, SOT-89 TP RESET IC 2.7V
IC750	0IDS232000A	IC, DS232AS 16P,SOP TP RS-232 DRIVER/RECEIVER
IC751	0IPH858400A	IC, PCF8584T 20P,SOP TP IIC BUS CONTROLLER
IC802	0ISA428200A	IC, LA4282 12S 2CHX10W AUDIO AMP
IC850	0IMCRSJ001A	IC, SC1565IST-1.8 SEMTECH 3P SOT223 TP REGULATOR
IC852	0IMCRFA010A	IC, KA7809R, FAIRCHILD 2P D-PAK, R/TP
IC853	0IMCRRH001A	IC, BA033FP ROHM 3P-SOP,TO252-3 R/TP 3.3V REGULATOR
IC857	0IMCRRH001A	IC, BA033FP ROHM 3P-SOP,TO252-3 R/TP 3.3V REGULATOR
IC858	0IMCRSH001A	IC, PQ05DZ1U SHARP 5, SMD TYPE R/TP REGULATOR
IC859	0IMCRSH001A	IC, PQ05DZ1U SHARP 5, SMD TYPE R/TP REGULATOR
IC901	0IMCRMN014A	IC, MSP3440G QA B8 V3 MICRONAS 80 QFP
IC902	0IKE780800J	IC, KIA7808API 3 ST REGULATOR .
IC903	0IMCRSH001A	IC, PQ05DZ1U 5, SMD TYPE R/TP REGULATOR

LOCA. NO	PART NO	DESCRIPTION
IC904	0IKE704200J	IC, KIA7042AF SOT-89 TP 4.2V VOLTAGE DETECTOR
IC915	0IMCRTI001A	IC, SN74HCT157D TEXAS INSTRUMENT 16P R/TP RL-JA10
IC917	0IFA742530B	IC, 74ACT253SC 16P-SOIC, JEDEC MS-012 R/TP
TRANSISTOR		
IC203	0TR830009BA	TR, BSS83 TP N-CHANNEL S/W
IC204	0TR830009BA	TR, BSS83 TP N-CHANNEL S/W
Q001	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q001	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q001	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q002	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q002	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q002	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q003	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q003	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q004	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q005	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q006	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q007	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q008	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q008	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q009	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q009	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q200	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q201	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q202	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q203	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q204	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q205	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q206	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q207	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q208	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q209	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q210	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q211	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q212	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q213	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q214	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q215	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q216	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q217	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q218	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q219	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q220	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q221	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q270	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q271	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q272	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q403	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q404	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q474	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q475	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q476	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN : Ceramic
CQ : Polyestor
CE : Electrolytic

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
Q477	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q478	0TR104009AF	TR, CHIP KRC104S SOT-23 TP KEC
Q700	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q720	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q721	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q722	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q723	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q724	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q901	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q902	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q903	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q904	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q905	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q906	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q907	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q908	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q909	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
DIODE		
D001	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D001	0DL200000CA	LED SAM5670(DL-2LRG) BK Y-GREEN -
D002	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D003	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D004	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D006	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D011	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D100	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D101	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D102	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D105	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D106	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D107	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D108	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D109	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D110	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D111	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D112	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D113	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D114	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D115	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D117	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D118	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D854	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D855	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D857	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D870	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D872	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D873	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D880	0DL233309AC	LED GREEN/RED GREEN:10MCD, RED:6MCD
D881	0DL233309AC	LED GREEN/RED GREEN:10MCD, RED:6MCD
D882	0DL233309AC	LED GREEN/RED GREEN:10MCD, RED:6MCD
D883	0DL233309AC	LED GREEN/RED GREEN:10MCD, RED:6MCD

LOCA. NO	PART NO	DESCRIPTION
DA105	0DD226239AA	DIODE, CHIP KDS226 SOT-23
LD740	0DL233309AC	LED GREEN/RED GREEN:10MCD, RED:6MCD
LD741	0DL233309AC	LED GREEN/RED GREEN:10MCD, RED:6MCD
LD742	0DL233309AC	LED GREEN/RED GREEN:10MCD, RED:6MCD
LD743	0DL233309AC	LED GREEN/RED GREEN:10MCD, RED:6MCD
ZD001	0DR050008AA	DIODE, SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD002	0DR050008AA	DIODE, SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD830	0DR050008AA	DIODE, SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD831	0DR050008AA	DIODE, SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD832	0DR050008AA	DIODE, SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
CAPACITOR		
C002	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C005	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C006	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C007	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C008	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C010	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C012	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C013	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C014	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C014	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C015	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C015	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C017	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C018	0CE474SK6DC	0.47UF MVG 50V M SMD R/TP
C019	0CE474SK6DC	0.47UF MVG 50V M SMD R/TP
C019	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C020	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C020	0CE335SK6DC	3.3UF MVG 50V 20% SMD R/TP
C021	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C022	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C022	0CE474SK6DC	0.47UF MVG 50V M SMD R/TP
C023	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C023	0CE474SK6DC	0.47UF MVG 50V M SMD R/TP
C024	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C024	0CE474SK6DC	0.47UF MVG 50V M SMD R/TP
C025	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C025	0CE474SK6DC	0.47UF MVG 50V M SMD R/TP
C026	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C029	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C030	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C030	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C031	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C034	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C035	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C038	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C039	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C040	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C041	0CE477DK618	470UF STD 50V 20% FL TP 5
C042	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C042	0CE477DK618	470UF STD 50V 20% FL TP 5

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;	CC, CX, CK, CN : Ceramic CQ : Polyestor CE : Electrolytic	RD : Carbon Film RS : Metal Oxide Film RN : Metal Film RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
C043	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C044	0CE107DH618	100UF STD 25V M FL TP5
C045	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C045	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C046	0CQ1521N509	0.0015U 100V K POLY TP
C047	0CE107DH618	100UF STD 25V M FL TP5
C047	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C048	0CQ1521N509	0.0015U 100V K POLY TP
C050	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C053	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C056	0CE107DH618	100UF STD 25V M FL TP5
C057	0CQ1041N509	0.1U 100V K POLY TP
C058	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C059	0CQ1041N509	0.1U 100V K POLY TP
C090	0CE474SK6DC	0.47UF MVG 50V M SMD R/TP
C091	0CE474SK6DC	0.47UF MVG 50V M SMD R/TP
C092	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C109	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C110	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1102	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1106	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C1107	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C1108	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C111	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C112	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C113	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C114	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C117	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C119	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) SMD
C121	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) SMD
C123	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) SMD
C126	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C127	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C211	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C216	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C221	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C273	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C277	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C292	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C294	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C295	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C300	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C310	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C314	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C387	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C388	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C389	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C390	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C396	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C401	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C416	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C417	0CE107SF6DC	100UF MVG 16V M SMD R/TP

LOCA. NO	PART NO	DESCRIPTION
C419	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C433	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C434	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C436	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C437	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C438	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C442	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C443	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C444	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C447	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C456	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C479	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C485	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C488	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C489	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C491	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C494	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C502	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C503	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C504	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C510	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C523	0CN105EJ56A	1.0UF 3216 35V 10% R/TP X7R
C524	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C671	0CE477DK618	470UF STD 50V 20% FL TP 5
C672	0CE477DK618	470UF STD 50V 20% FL TP 5
C673	0CE477DK618	470UF STD 50V 20% FL TP 5
C674	0CE477DK618	470UF STD 50V 20% FL TP 5
C675	181-120K	2200PF 4KV M E FMTW LEAD 4.5
C676	181-120K	2200PF 4KV M E FMTW LEAD 4.5
C724	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C760	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) SMD
C765	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) SMD
C766	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) SMD
C769	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C772	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C785	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C786	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C787	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C788	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C789	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C791	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C793	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C810	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C811	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C817	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C820	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C824	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) SMD
C826	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C828	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C833	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C839	0CN105EJ56A	1.0UF 3216 35V 10% R/TP X7R
C881	0CE107SF6DC	100UF MVG 16V M SMD R/TP

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LOCA. NO	PART NO	DESCRIPTION
C884	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C887	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C890	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C893	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C912	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C913	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C914	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C915	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C928	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C929	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C930	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C931	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C949	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) SMD
C951	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) SMD
C964	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C965	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C966	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C967	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C968	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C969	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C971	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) SMD
C973	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) SMD
C980	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C981	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C982	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C984	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C986	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C993	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C994	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C995	0CE476SF6DC	47UF MVG 16V M SMD R/TP

COIL & INDUCTOR

L200	0LC0233002A	INDUCTOR 3.3UH CERATECH R/TP
L400	0LC0233002A	INDUCTOR 3.3UH CERATECH R/TP
L401	0LC0233002A	INDUCTOR 3.3UH CERATECH R/TP
L402	0LC0233002A	INDUCTOR 3.3UH CERATECH R/TP
L403	0LC0233002A	INDUCTOR 3.3UH CERATECH R/TP
L404	0LC0233002A	INDUCTOR 3.3UH CERATECH R/TP
L405	0LC0233002A	INDUCTOR 3.3UH CERATECH R/TP
L406	0LC0233002A	INDUCTOR 3.3UH CERATECH R/TP
L470	0LC0233002A	INDUCTOR 3.3UH CERATECH R/TP
L471	0LC0233002A	INDUCTOR 3.3UH CERATECH R/TP
L472	0LC0233002A	INDUCTOR 3.3UH CERATECH R/TP
L473	0LC0233002A	INDUCTOR 3.3UH CERATECH R/TP
L474	0LC0233002A	INDUCTOR 3.3UH CERATECH R/TP
L870	6140VB0004B	COIL,CHOKE 26UH 1UEWPHY 22.5TURN YL-9N 0.4
L886	6140VB0004B	COIL,CHOKE 26UH 1UEWPHY 22.5TURN YL-9N 0.4

CONNECTOR

A6	6866VA9001B	CONNECTOR D-SUB 2990-9C UL 1161 AWG 26
P001A	366-921J	CONNECTOR, WAFER 2.5MM 10P GIL-G
P001B	366-921J	CONNECTOR, WAFER 2.5MM 10P GIL-G

LOCA. NO	PART NO	DESCRIPTION
P002A	366-921K	CONNECTOR, WAFER 2.5MM 11P GIL-G
P002B	366-921K	CONNECTOR, WAFER 2.5MM 11P GIL-G
P005A	366-921L	CONNECTOR, WAFER 2.5MM 12P GIL-G
P005B	366-921L	CONNECTOR, WAFER 2.5MM 12P GIL-G
P036	6630V601236	CONNECTOR, WAFER MDR-36
P100A	6630VL01380	CONNECTOR, WAFER 2-557101-1 AMP 80P 2.54MM
P101	6630VGA001C	CONNECTOR D-SUB 68114-1521 MOLEX 15PIN 2.29MM
P101A	6630VL04008	CONNECTOR, WAFER-AMP 8P 2.5MM 0-0171825-8
P102A	366-932C	CONNECTOR, WAFER 2.5MM 4P GIL-G
P102B	387-B04C	CONNECTOR ASSEMBLY 4P 2.5MM 200MM H-B UL1185AWG26
P104	6630VGA001C	CONNECTOR D-SUB 68114-1521 15PIN 2.29MM ANGLE SN
P105A	366-921J	CONNECTOR, WAFER 2.5MM 10P GIL-G
P106A	366-921L	CONNECTOR, WAFER 2.5MM 12P GIL-G
P107A	366-921K	CONNECTOR, WAFER 2.5MM 11P GIL-G
P108	6602T12002M	CONNECTOR, WAFER 53261-1390 13P 1.25MM R/A SMD
P108A	6602T12002M	CONNECTOR, WAFER 53261-1390 13P 1.25MM R/A SMD
P111A	366-932D	CONNECTOR, WAFER 2.5MM 5P GIL-G
P600	6602T11001A	CONNECTOR, WAFER FI-TWE21P-VF JAE 21P 1.25MM S/T
P741	6630VGA004B	CONNECTOR D-SUB 69107-0921 MOLEX 9P 2.77MM
P800	6602V25009L	CONNECTOR, WAFER 2.5MM 12P 1-171825-2 AMP MN-42PZ10
P801	6602V25009F	CONNECTOR, WAFER 2.5MM 7P 0-171825-7 AMP
P802	366-932B	CONNECTOR, WAFER 2.5MM 3P GIL-G
P803	366-932B	CONNECTOR, WAFER 2.5MM 3P GIL-G LG

JACK

JP1	6612VLH002A	JACK, SP026B PARK ELEC 4P RD/BK/BK/RD
P101	6612JH003CA	JACK, PPJ137A PARK ELEC. AUDIO L-MONO
P102	380-068D	JACK, UEJ-CV-003 UGCOM E/P WITH S/W
P102	6612J00010A	JACK, PPJ128A-1 PARKELEC A/V 2P
P103	380-363K	JACK, PJ6046G PARKELEC H=8.0
P103	6612BBBHN6A	JACK, 440062-1 AMP DVI INTERACED RIGHT ANGLE
P104	6612VMV002A	JACK, UCT-EX-020 UGCOM BNC MONO
P105	6612JH003CA	JACK, PPJ137A PARK ELEC. AUDIO L-MONO
P106	380-068E	JACK, UEJ-CV-018 UGCOM D3.5 E/P

RESISTOR

A692	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR260	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR261	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR262	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR263	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR264	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR265	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR266	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR267	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR268	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR269	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR270	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR271	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR330	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR332	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR333	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R

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LOCA. NO	PART NO	DESCRIPTION
AR334	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR335	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR336	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR337	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR338	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR339	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR340	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR341	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR342	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR400	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR401	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR402	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR403	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR404	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR405	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR406	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR407	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR460	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR461	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR462	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR463	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR465	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR466	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR467	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR468	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR469	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR470	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR471	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR472	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR473	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR474	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR475	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR512	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR513	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR514	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR515	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR550	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR551	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR552	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR553	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR589	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR590	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR691	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR693	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR694	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR695	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
AR696	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
IC330	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
IC332	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
IC333	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
IC334	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
IC335	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R

LOCA. NO	PART NO	DESCRIPTION
IC336	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
IC337	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
IC338	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
IC339	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
IC340	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
IC341	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
IC342	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
R020	0RS2701K607	2.7K OHM 2 W 5.00% TA62
R021	0RS2701K607	2.7K OHM 2 W 5.00% TA62
R030	0RS0221H609	2.2 OHM 1/2 W 5.00% TA52
R032	0RS0221H609	2.2 OHM 1/2 W 5.00% TA52
R1111	0RD0152H609	15 OHM 1/2 W 5.00% TA52
R589	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
R590	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
R655	0RD4700H609	470 OHM 1/2 W 5.00% TA52
R656	0RD4700H609	470 OHM 1/2 W 5.00% TA52

FILTER & CRYSTAL

F601	6200VJS001A	FILTER, ZJY51R5-4P TDK DIP DC 50VOLT 2A
F602	6200VJS001A	FILTER, ZJY51R5-4P TDK DIP DC 50VOLT 2A
L001	6200JB8010L	FILTER, MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L001	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L002	6200JB8010L	FILTER, MLB-201209-1000L-N2R/TP 1000OHM 350MA
L002	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L003	6200JB8010L	FILTER, MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L003	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L004	6200JB8010L	FILTER, MAG LAYERS R/TP 1000OHM 350MA
L004	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L005	6200JB8010L	FILTER, MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L006	6200JB8010L	FILTER, MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L007	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L008	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L009	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L010	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L270	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L271	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L272	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L273	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L274	6210VC0005A	FILTER, BK2125 HS 750 2X1.25X0.85MM R/TP
L275	6210VC0005A	FILTER, BK2125 HS 750 2X1.25X0.85MM R/TP
L276	6210VC0005A	FILTER, BK2125 HS 750 2X1.25X0.85MM R/TP
L872	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L873	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L874	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L875	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L876	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L877	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L878	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L879	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L881	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L882	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L883	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP

LOCA. NO	PART NO	DESCRIPTION
L884	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L887	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L888	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L889	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L890	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L891	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L892	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L900	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L901	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L902	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L903	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L904	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L905	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L906	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L907	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L908	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L909	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L910	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L911	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L912	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L913	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L914	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L915	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L916	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L917	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L918	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L919	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L920	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L921	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L922	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L923	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
LA101	150-F09A	FILTER, SQE2222 7-14MH 0.37PHY 48TURN TDA2616
X401	6202VDT002E	RESONATOR, 20250000HZ 30PPM 16PF TP
X402	6202VDT002J	RESONATOR,13.500000MHZ +/- 50 PPM 14PF
X470	6202VDT002E	RESONATOR,RADIAL 20250000HZ 30PPM 16PF
X501	6202VDT002J	RESONATOR,13.500000MHZ +/- 50 PPM 14PF
X601	156-A02M	RESONATOR,18.432MHZ 30PPM 10PF BK
X720	6212AB2015C	RESONATOR,25MHZ +/- 50 PPM 20PF T/R
SWITCH		
SW001	140-315A	SWITCH, TACT SKHV17910B LG C&D NON 12V
SW002	140-315A	SWITCH, TACT SKHV17910B LG C&D NON 12V
SW003	140-315A	SWITCH, TACT SKHV17910B LG C&D NON 12V
SW004	140-315A	SWITCH, TACT SKHV17910B LG C&D NON 12V
SW005	140-315A	SWITCH, TACT SKHV17910B LG C&D NON 12V
SW006	140-315A	SWITCH, TACT SKHV17910B LG C&D NON 12V
SW102	140-275A	SWITCH, PUSH 30V 0.3A HORIZONTAL 500G
SW800	6600VM2006A	SWITCH, 250V 4A HORIZONTAL .G
ACCESSORIES		
A1	3828VA0388A	MANUAL,OWNERS RF03FA 42PZ44/46/45V/47V LG EN
A1	3828VA0388F	MANUAL,OWNERS LGEFS/ES/PT RF03FA

LOCA. NO	PART NO	DESCRIPTION
A1	3828VA0388A	MANUAL,OWNERS RF03FA EN 100A TX 026H
A1	3828VA0388B	MANUAL,OWNERS RF03FA LG CH 100A TX S LOCAL
A1	3828VA0388C	MANUAL,OWNERS RF03FA AR/EN 100A TX 026H
A1	3828VA0388D	MANUAL,OWNERS RF03FA RU/EN 100A TX 026H 7YRS
A1	3828VA0388E	MANUAL,OWNERS RF03FA LG BN/LGEUK
A1	3828VA0388F	MANUAL,OWNERS RF03FA EN/SP/PO/IT/NE
A1	3828VA0438A	MANUAL,OWNERS RF03FA LG EN 100A TX 026H
A2	6710V00100A	REMOTE CONTROLLER RF02LA STEREO
A3	6410VBH003C	POWER CORD,MP5004(13A)+V1625 VOLEX BS LGEUK
A3	6410VCH001C	POWER CORD,V3203CA+V1625 VOLEXCLEE 280MM
A3	6410VEH003C	POWER CORD , 2800MM HOUSING LGEFS/HS/ES
A4	6850J00002A	CABLE,DVI DVI-D TO DVI-D UL20276 3000MM
MISCELLANEOUS		
P001	6726VH0001A	REMOTE CONTROLLER RECEIVER, 38KHZ .
X830	6204B47985D	OSCILLATOR,12MHZ +/-100PPM 3.3V T/R 15PF,

REPLACEMENT PARTS LIST (TUNER)

LOCA. NO	PART NO	DESCRIPTION
IC		
IC001	0ISM555000A	SDA5550 MQFP100 BK
IC002	0IZZVA0079B	M27W201 DIP 32P ST
IC003	0ISS610082A	K6X1008T2D-TF70 REVISION 32-TSOP
IC004	0IAL241610B	AT24C16A-10PI-2.7 8PIN DIP
IC005	0IKE702700D	KIA7027AF 3, SOT-89 TP RESET IC 2.7V
IC006	0ISJ111725A	EZ1117ACST-2.5 3P SOT ST
IC008	0ISJ111733A	EZ1117CST-3.3 3P,SOT-223 TP 3.3V
IC101	0IMCRFA015A	KA7805R FAIRCHILD 2P D-PAK
IC201	0IPH860100B	TDA8601T 16P-SOP BK
IC401	0ISO208900A	CXA2089Q 48QFP BK A/V SWITCH
IC402	0IMCRFA010A	KA7809R, FAIRCHILD 2P D-PAK
IC501	0IMI623200B	M62320FP,I/O EXPANDER 16P SOP
IC601	0IMCRMN011D	MSP3410G QA B8 V3 MICRONAS 80P
IC602	0IKE704200J	KIA7042AF SOT-89 TP 4.2V
IC603	0IMCRFA009A	KA78M08RTM, FAIRCHILD 2P D-PAK
IC604	0IMCRFA015A	KA7805R FAIRCHILD 2P D-PAK
IC702	0IMCRFA009A	KA78M08RTM, FAIRCHILD 2P D-PAK
IC702	0IMCRFA015A	KA7805R FAIRCHILD 2P D-PAK
IC704	0IMCRFA015A	KA7805R FAIRCHILD 2P D-PAK
IC706	0IMCRTI003A	SN74HCT08D TEXAS INSTRUMENT 16P
IC801	0IMCRSG003A	L4973D5.1 SGS-THOMSON 20P SOP
IC802	0IMCRSG003A	L4973D5.1 SGS-THOMSON 20P SOP
TRANSISTOR		
IC803	0TR830009BA	BSS83 TP N-CHANNEL S/W TR
Q003	0TR830009BA	BSS83 TP N-CHANNEL S/W TR
Q004	0TR830009BA	BSS83 TP N-CHANNEL S/W TR
Q005	0TR830009BA	BSS83 TP N-CHANNEL S/W TR
Q006	0TR830009BA	BSS83 TP N-CHANNEL S/W TR
Q007	0TR830009BA	BSS83 TP N-CHANNEL S/W TR
Q008	0TR830009BA	BSS83 TP N-CHANNEL S/W TR
Q101	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q102	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q103	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q104	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q111	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q112	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q230	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q231	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q232	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q233	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q401	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q402	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q403	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q404	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q405	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q406	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q406	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q407	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q408	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q409	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q410	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q411	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q601	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q602	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q603	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q604	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q605	0TR387500AA	CHIP 2SC3875S(ALY) KEC
DIODE		
D001	0DD226239AA	CHIP KDS226 SOT-23
D002	0DD226239AA	CHIP KDS226 SOT-23
D003	0DD226239AA	CHIP KDS226 SOT-23
D004	0DD226239AA	CHIP KDS226 SOT-23
D005	0DD226239AA	CHIP KDS226 SOT-23
D006	0DD226239AA	CHIP KDS226 SOT-23
D010	0DD226239AA	CHIP KDS226 SOT-23
D011	0DD226239AA	CHIP KDS226 SOT-23
D012	0DD226239AA	CHIP KDS226 SOT-23
D013	0DD226239AA	CHIP KDS226 SOT-23
D101	0DD226239AA	CHIP KDS226 SOT-23
D102	0DD226239AA	CHIP KDS226 SOT-23
D103	0DD226239AA	CHIP KDS226 SOT-23
D401	0DD226239AA	CHIP KDS226 SOT-23
D402	0DD226239AA	CHIP KDS226 SOT-23
D403	0DD226239AA	CHIP KDS226 SOT-23
D404	0DD226239AA	CHIP KDS226 SOT-23
D406	0DD226239AA	CHIP KDS226 SOT-23
D407	0DD226239AA	CHIP KDS226 SOT-23
D408	0DD226239AA	CHIP KDS226 SOT-23
D409	0DD226239AA	CHIP KDS226 SOT-23
D410	0DD226239AA	CHIP KDS226 SOT-23
D411	0DD226239AA	CHIP KDS226 SOT-23
D412	0DD226239AA	CHIP KDS226 SOT-23
D413	0DD226239AA	CHIP KDS226 SOT-23
D414	0DD226239AA	CHIP KDS226 SOT-23
D415	0DD226239AA	CHIP KDS226 SOT-23
D450	0DD226239AA	CHIP KDS226 SOT-23
D451	0DD226239AA	CHIP KDS226 SOT-23
D501	0DD226239AA	CHIP KDS226 SOT-23
D502	0DD226239AA	CHIP KDS226 SOT-23
D513	0DD226239AA	CHIP KDS226 SOT-23
D514	0DD226239AA	CHIP KDS226 SOT-23
D601	0DD226239AA	CHIP KDS226 SOT-23
D602	0DD226239AA	CHIP KDS226 SOT-23
D706	0DD226239AA	CHIP KDS226 SOT-23
D707	0DD226239AA	CHIP KDS226 SOT-23
D708	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D709	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D801	0DR190309AA	MBRS190T3 TP 90V 1A 50A 10NSEC 1MA
D803	0DR190309AA	MBRS190T3 TP 90V 1A 50A 10NSEC 1MA
D804	0DD226239AA	CHIP KDS226 SOT-23
ZD101	0DZ330009DF	MTZJ33B TP DO34 0.5W 33V 5UA

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;

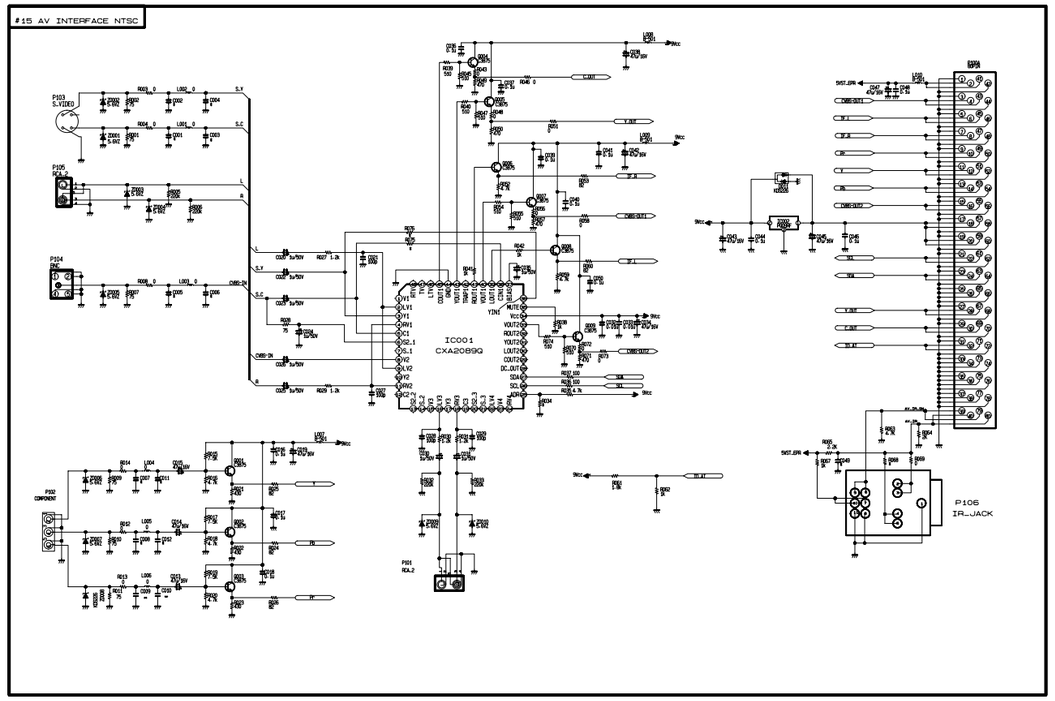
CC, CX, CK, CN : Ceramic
CQ : Polyestor
CE : Electrolytic

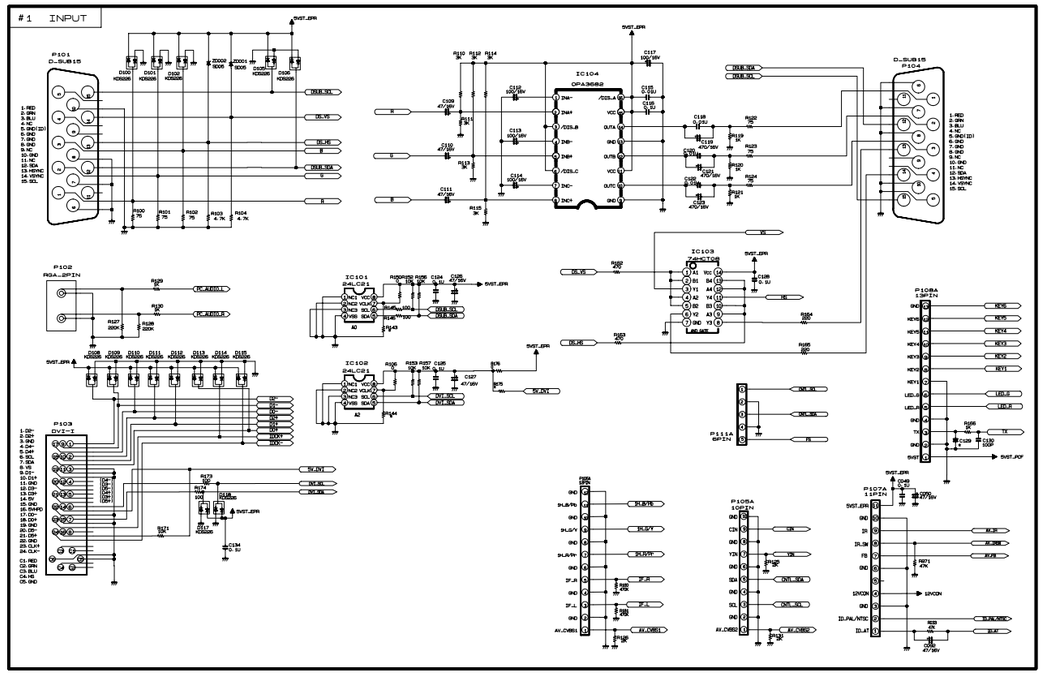
RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

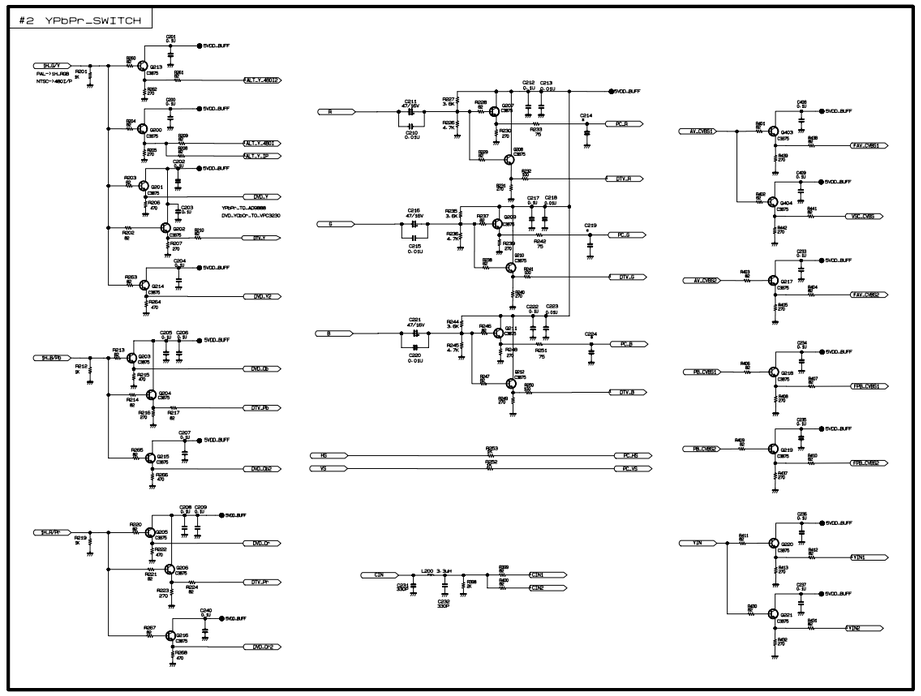
LOCA. NO	PART NO	DESCRIPTION
CAPACITOR		
C001	0CE476DF618	47UF STD 16V M FL TP5
C002	0CE476DF618	47UF STD 16V M FL TP5
C006	0CE476DF618	47UF STD 16V M FL TP5
C007	0CE476DF618	47UF STD 16V M FL TP5
C009	0CE105BK618	1UF KME 50V M FL TP5
C014	0CE476DF618	47UF STD 16V M FL TP5
C021	0CE107DF618	100UF STD 16V M FL TP5
C025	0CE476DF618	47UF STD 16V M FL TP5
C027	0CE476DF618	47UF STD 16V M FL TP5
C030	0CE476DF618	47UF STD 16V M FL TP5
C033	0CE107DF618	100UF STD 16V M FL TP5
C101	0CE4756F618	4.7UF SMS,SG 16V 20% FL TP 5
C103	0CE227DF618	220UF STD 16V M FL TP5
C105	0CE107DF618	100UF STD 16V M FL TP5
C106	0CE106DK618	10UF STD 50V M FL TP5
C107	0CE107DF618	100UF STD 16V M FL TP5
C109	0CE476DF618	47UF STD 16V M FL TP5
C312	0CN105EJ56A	1.0UF 3216 35V 10% R/TP X7R
C313	0CE476DF618	47UF STD 16V M FL TP5
C401	0CE477DF618	470UF STD 16V 20% FL TP 5
C402	0CE106DK618	10UF STD 50V M FL TP5
C408	0CE477DF618	470UF STD 16V 20% FL TP 5
C412	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C415	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C416	0CE106DF618	10UF STD 16V M FL TP5
C417	0CE106DF618	10UF STD 16V M FL TP5
C418	0CE477DF618	470UF STD 16V 20% FL TP 5
C427	0CE106DF618	10UF STD 16V M FL TP5
C428	0CE106DF618	10UF STD 16V M FL TP5
C446	0CE106DF618	10UF STD 16V M FL TP5
C450	0CE227DF618	220UF STD 16V M FL TP5
C452	0CE227DF618	220UF STD 16V M FL TP5
C453	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C456	0CE227DF618	220UF STD 16V M FL TP5
C501	0CE107DF618	100UF STD 16V M FL TP5
C532	0CE227DF618	220UF STD 16V M FL TP5
C533	0CE107DF618	100UF STD 16V M FL TP5
C602	0CE107DF618	100UF STD 16V M FL TP5
C603	0CE107DF618	100UF STD 16V M FL TP5
C605	0CE106DF618	10UF STD 16V M FL TP5
C611	0CE107DF618	100UF STD 16V M FL TP5
C612	0CE107DF618	100UF STD 16V M FL TP5
C619	0CE107DF618	100UF STD 16V M FL TP5
C621	0CE107DF618	100UF STD 16V M FL TP5
C623	0CE106DF618	10UF STD 16V M FL TP5
C630	0CE106DF618	10UF STD 16V M FL TP5
C634	0CE107DF618	100UF STD 16V M FL TP5
C639	0CE107DF618	100UF STD 16V M FL TP5
C710	0CE107DF618	100UF STD 16V M FL TP5
C712	0CE107DF618	100UF STD 16V M FL TP5
C714	0CE106DK618	10UF STD 50V M FL TP5
C758	0CE107DF618	100UF STD 16V M FL TP5
C759	0CE107DF618	100UF STD 16V M FL TP5
C801	0CE107DF618	100UF STD 16V M FL TP5
C804	0CE477DF618	470UF STD 16V 20% FL TP 5
C805	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C805	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C806	0CE477DF618	470UF STD 16V 20% FL TP 5
C808	0CE107DF618	100UF STD 16V M FL TP5
C813	0CE106DF618	10UF STD 16V M FL TP5
C816	0CE477DF618	470UF STD 16V 20% FL TP 5
C817	0CE107DF618	100UF STD 16V M FL TP5
C821	0CE477DF618	470UF STD 16V 20% FL TP 5
C824	0CE477DF618	470UF STD 16V 20% FL TP 5
C828	0CE477DF618	470UF STD 16V 20% FL TP 5
C831	0CE106DF618	10UF STD 16V M FL TP5
C834	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C835	0CE107DF618	100UF STD 16V M FL TP5
COIL & INDUCTOR		
L801	6140VR0001C	COIL,SB1260-470 GET 47UH
L802	6140VR0001C	COIL,SB1260-470 GET 47UH
L803	6140VR0001C	COIL,SB1260-470 GET 47UH
T801	6170VMCA57A	TRANSFORMER,EPC1716 650UH +-15%
FILTER & CRYSTAL		
L001	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM
L010	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM
L101	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM
L102	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM
L201	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM
L205	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM
L405	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM
L501	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM
L503	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM
L505	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM
L601	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM
L602	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM
L603	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM
L604	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM
L701	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM
L706	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM
L708	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM
L901	6200JB8010U	OR 14*7*7.5H SMC BK 6.0MH-11.0MH
X001	156-A01L	RESONATOR,HC49U 6.000MHZ 30PPM
X601	6202VDT002H	RESONATOR,SX-1 18.432000MHZ +/-30 PPM
JACK		
P002	6612VAH001A	HEC3900-010110 DC (7) BK LN-15A1
P003	380-068E	UEJ-CV-018 UGCOM D3.5 E/P JACK
P104	6612J00010B	PPJ128A-2 A/V 3P WITH S/W RD-WH-YL
P105	6612J00010B	PPJ128A-2 A/V 3P WITH S/W RD-WH-YL

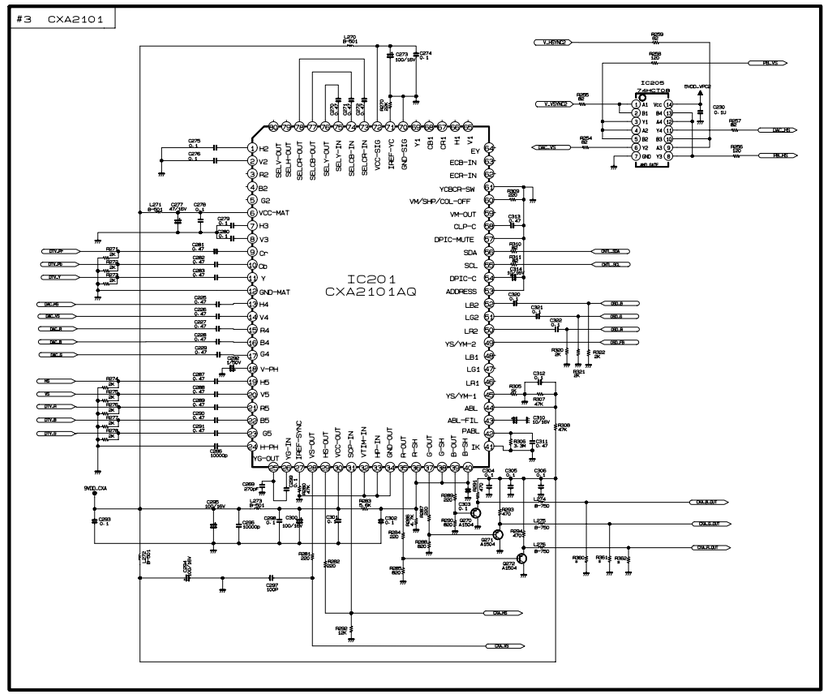
LOCA. NO	PART NO	DESCRIPTION
P104	6612M00001A	UPJ-R1-023 21PIN W/SHLD
P105	6612M00001A	UPJ-R1-023 21PIN W/SHLD
ACCESSORIES		
A7	3828VA0397E	MANUAL,OWNERS RF03FA RT-BA50 100A TX
A8	6850F00001A	CABLE,D-SUB MDR-36 UL20276 210MM
MISCELLANEOUS		
TU101	6700MF0003A	TUNER, TAFH-Z342D LG MULTI FS LT-15A15
TU101	6700PF0002A	TUNER, TAFH-S312D LG PAL FS 4SYS

LOCA. NO	PART NO	DESCRIPTION

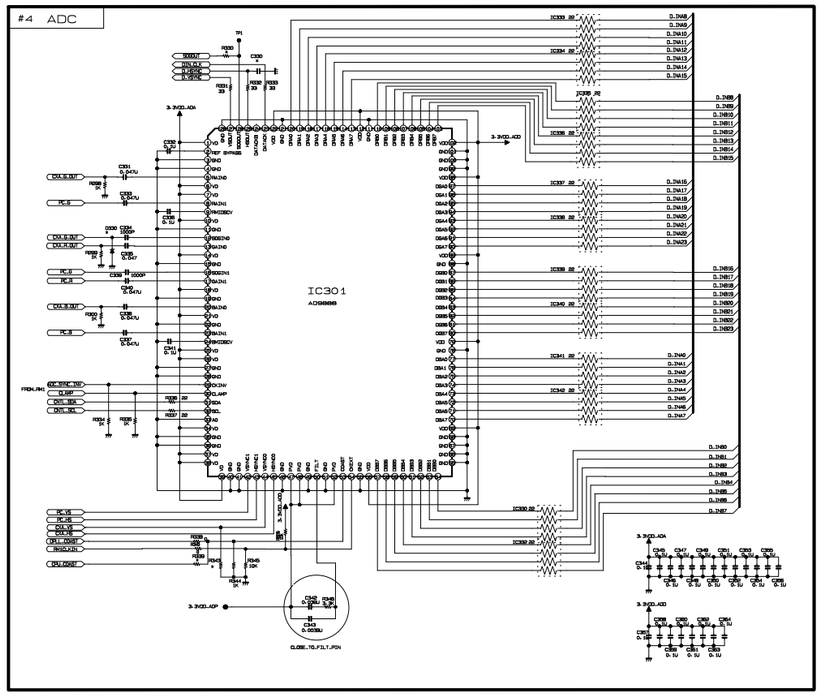


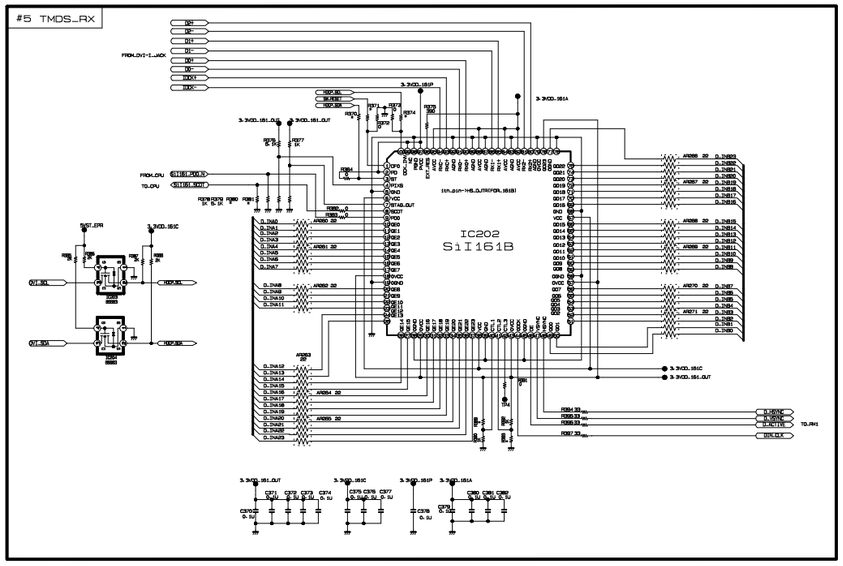


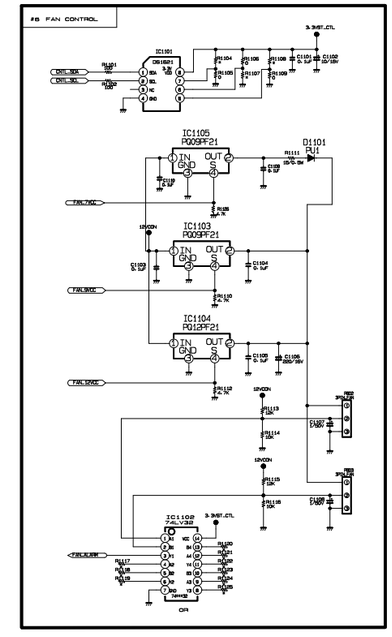


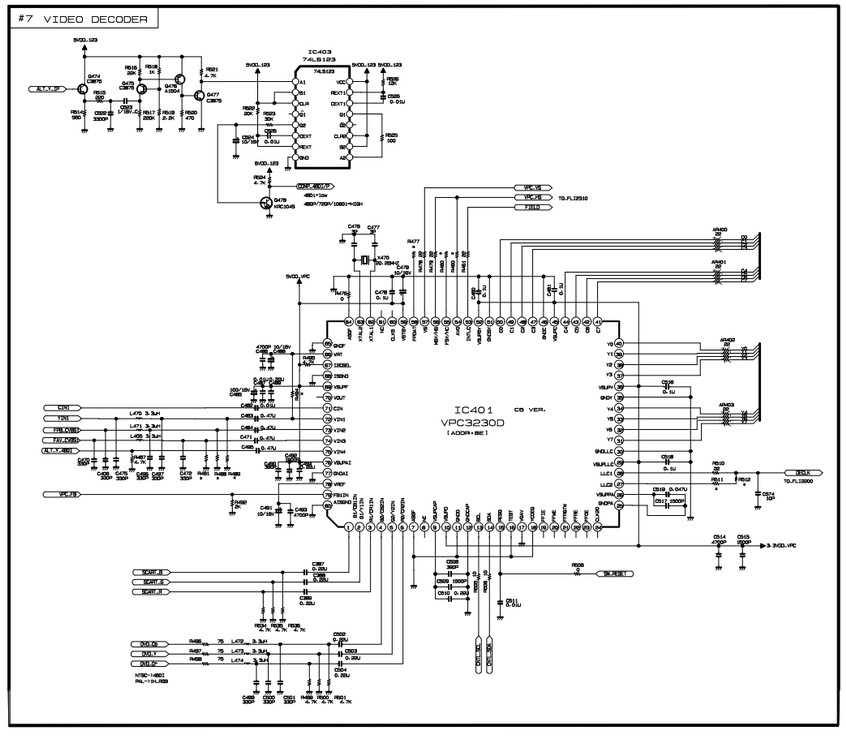


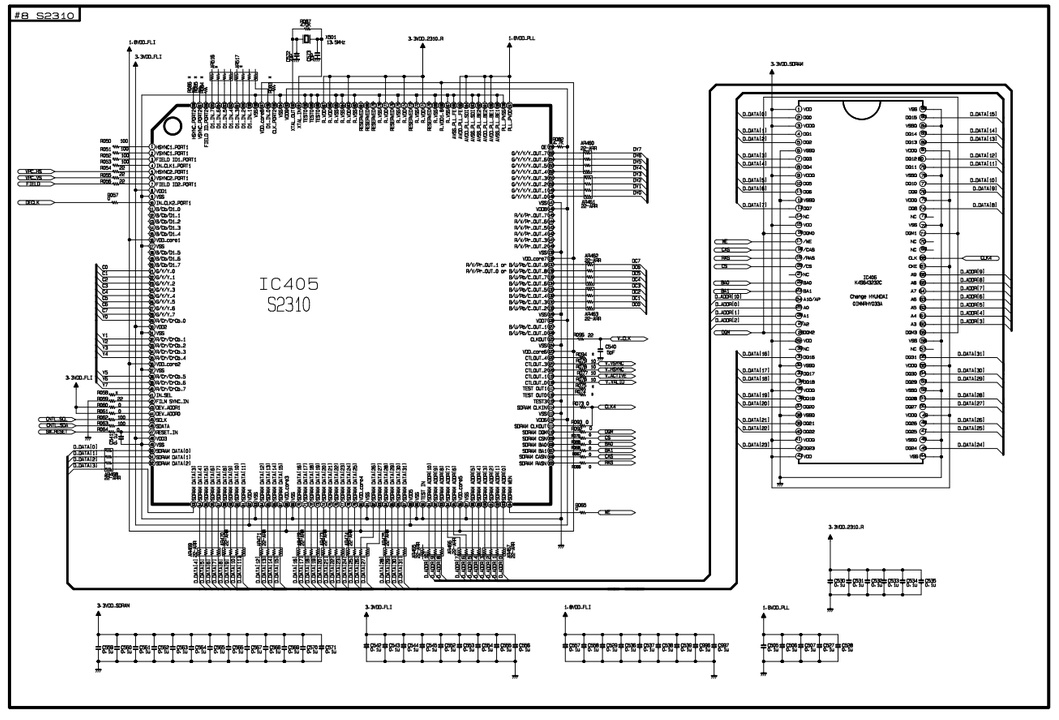
P/No : 3854VA0133A-S1(1/2)
2003.6.21



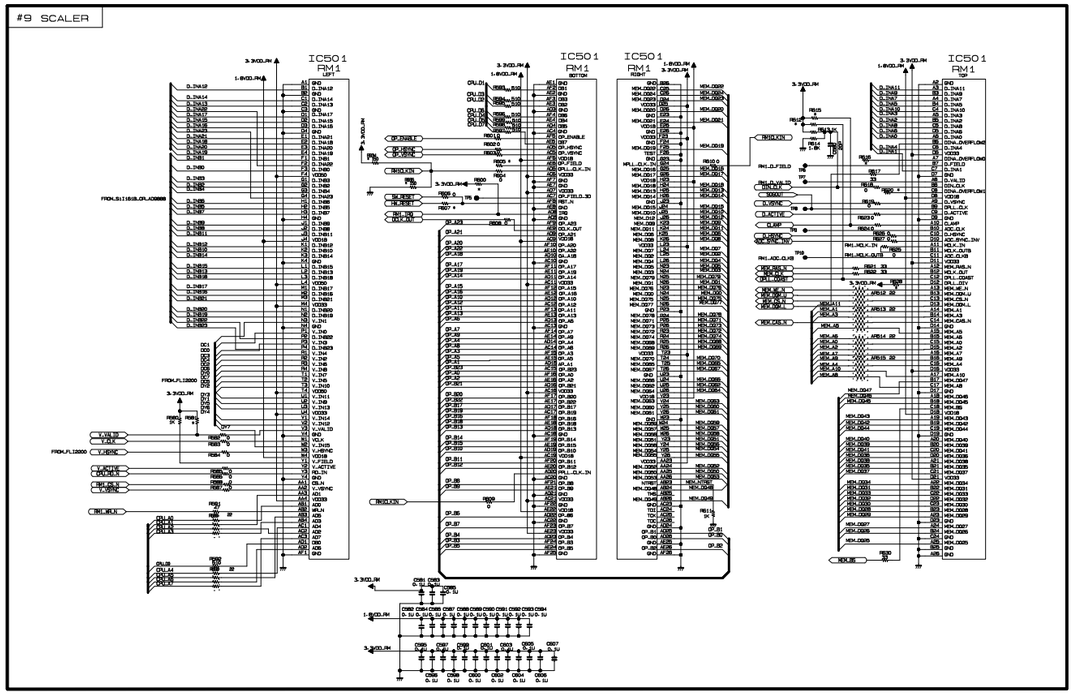


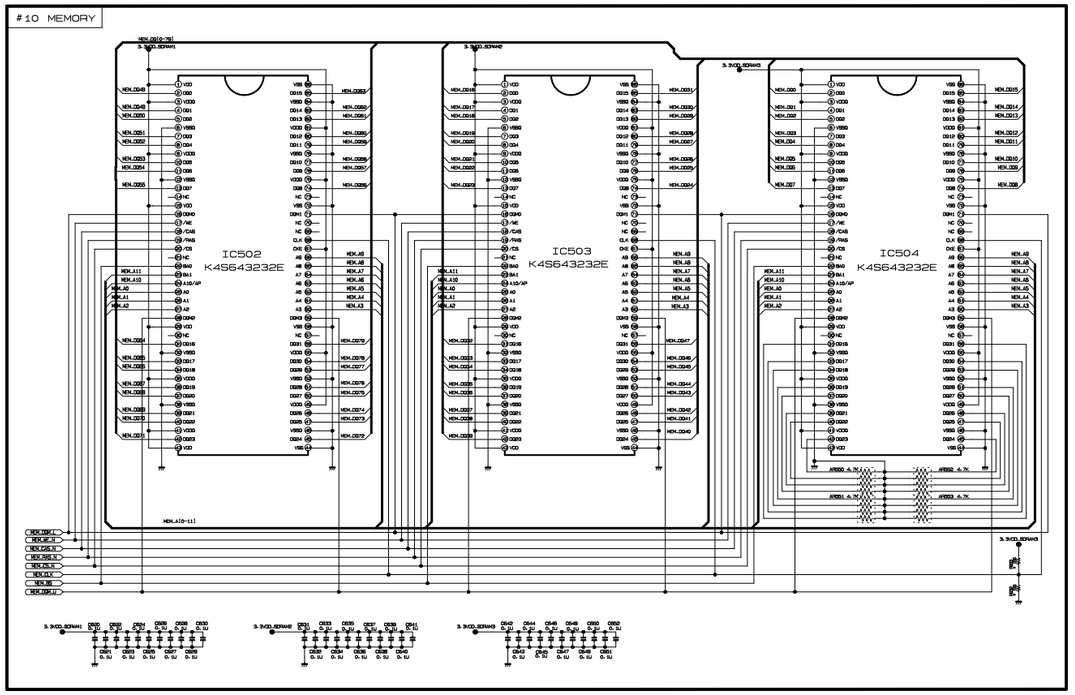


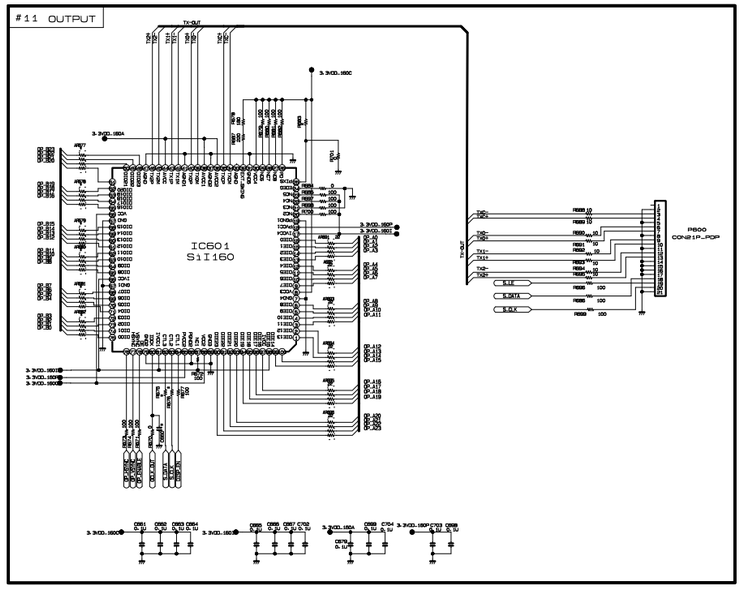


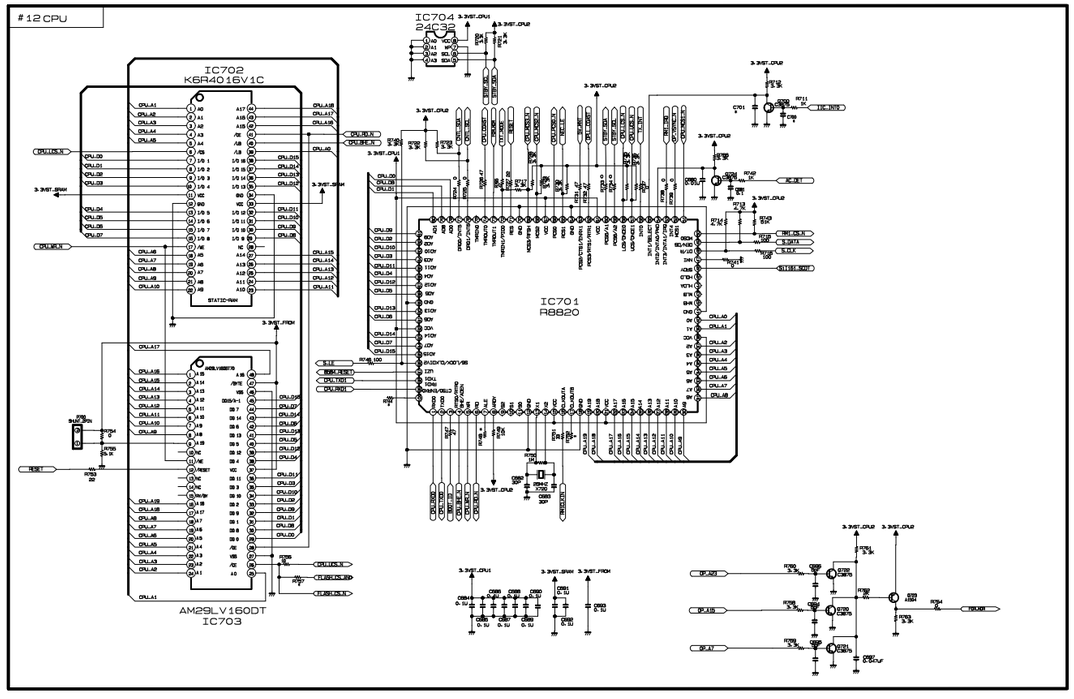


P/No : 3854VA0133A-S1(2/2)
2003.6.21



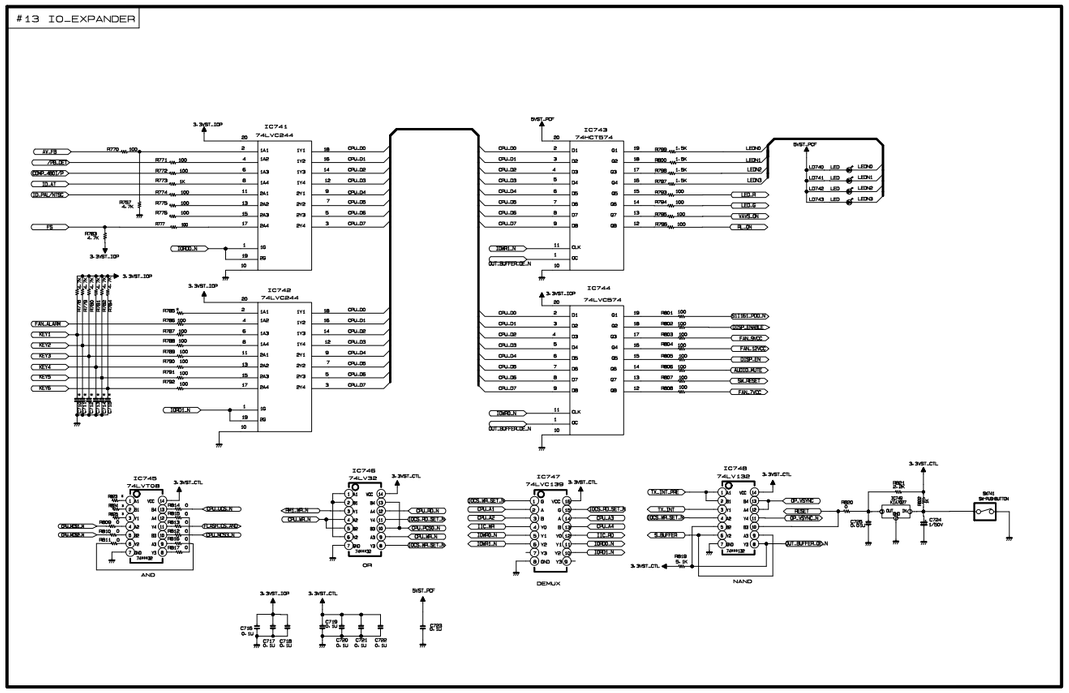




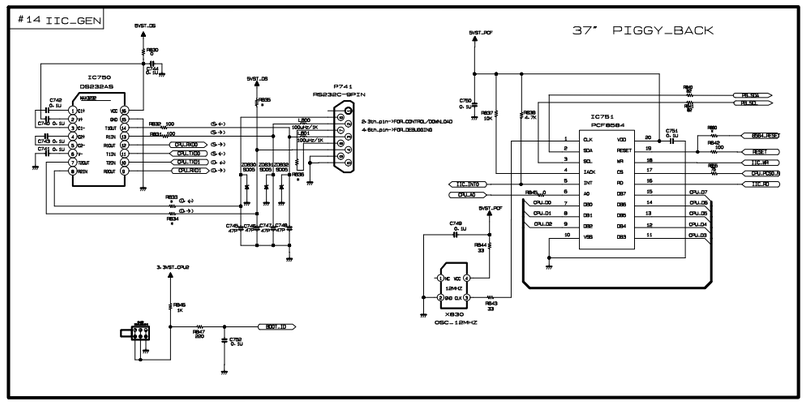


P/No : 3854VA0133A-S2(1/2)
2003.6.21

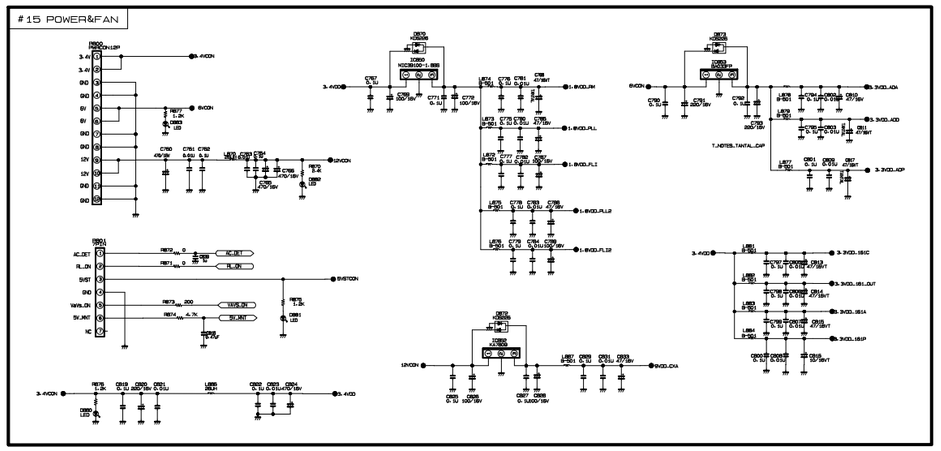
#13 IO_EXPANDER



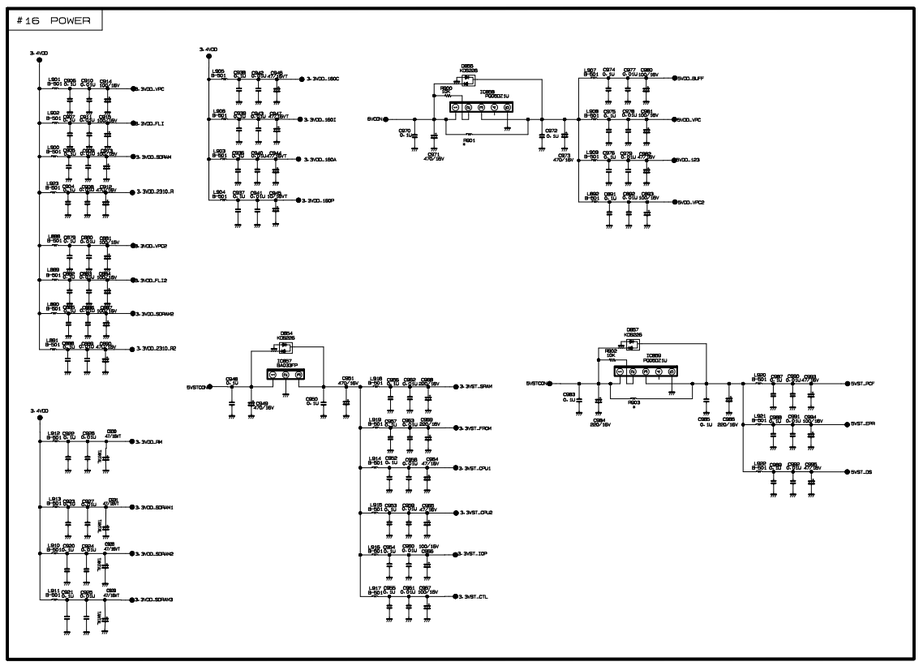
#14 IIC_GEN



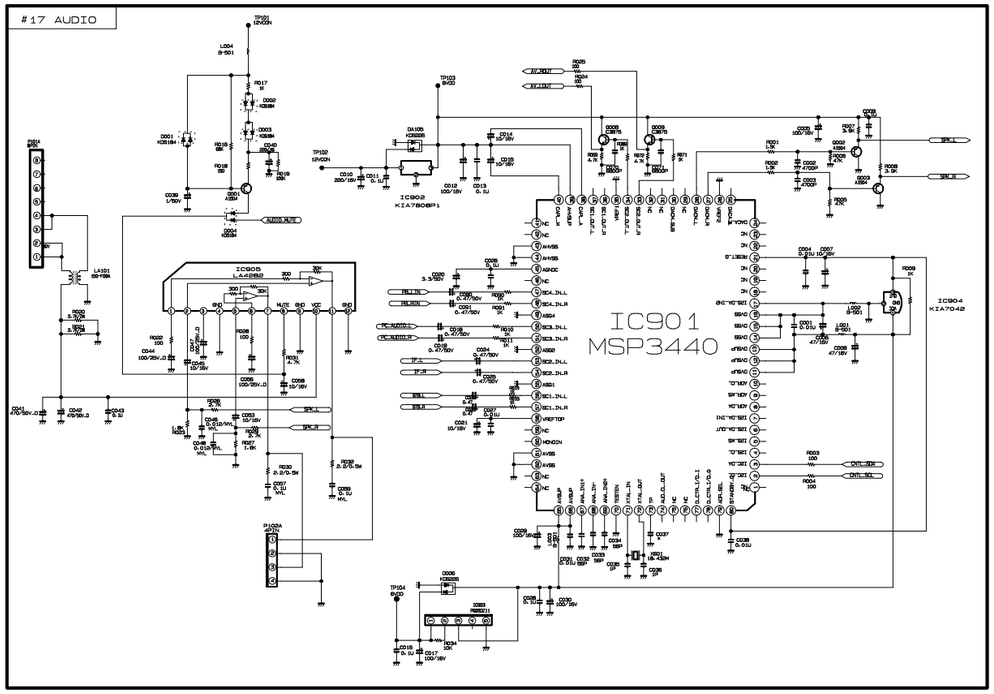
#15 POWER&FAN



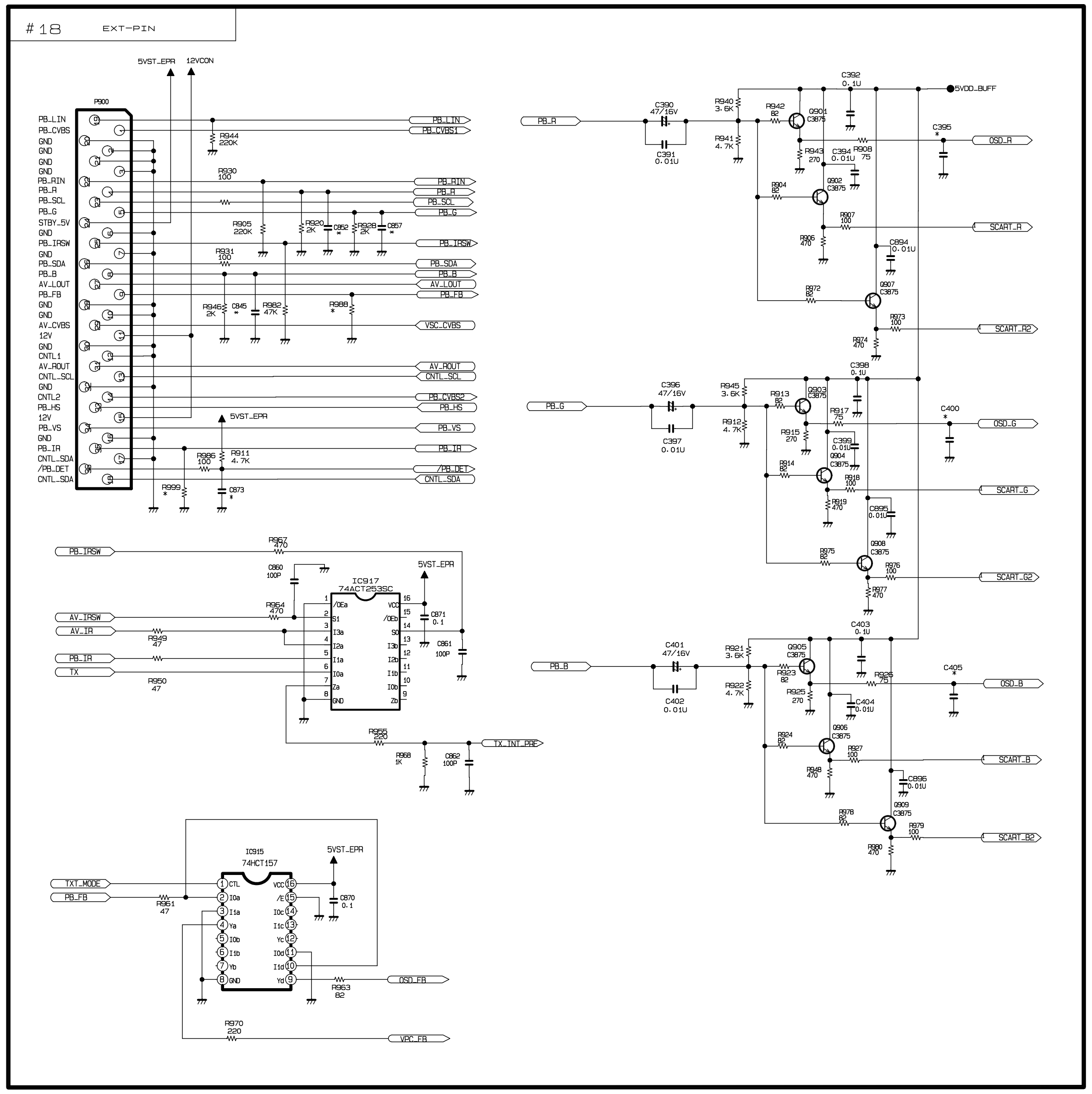
#16 POWER



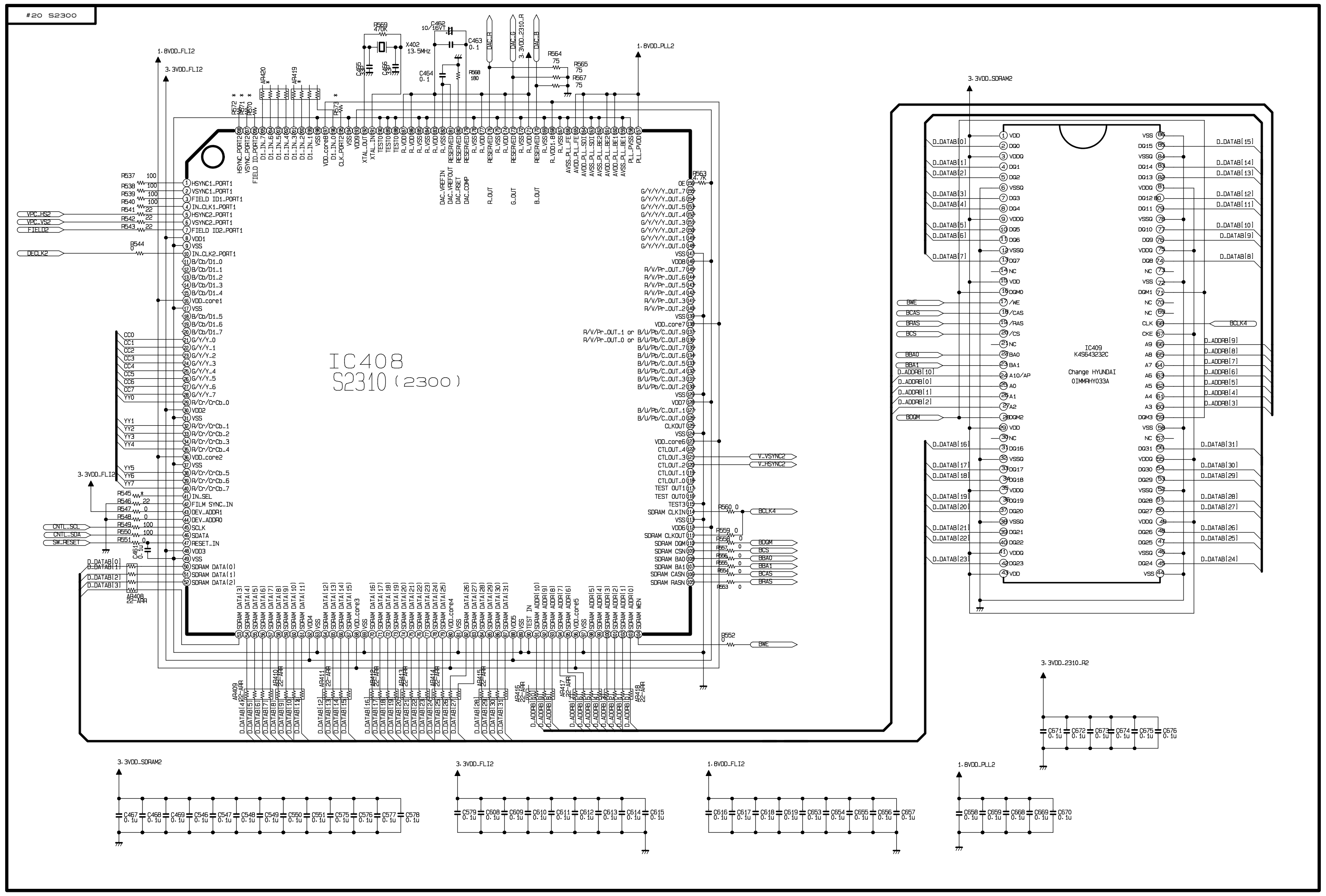
#17 AUDIO

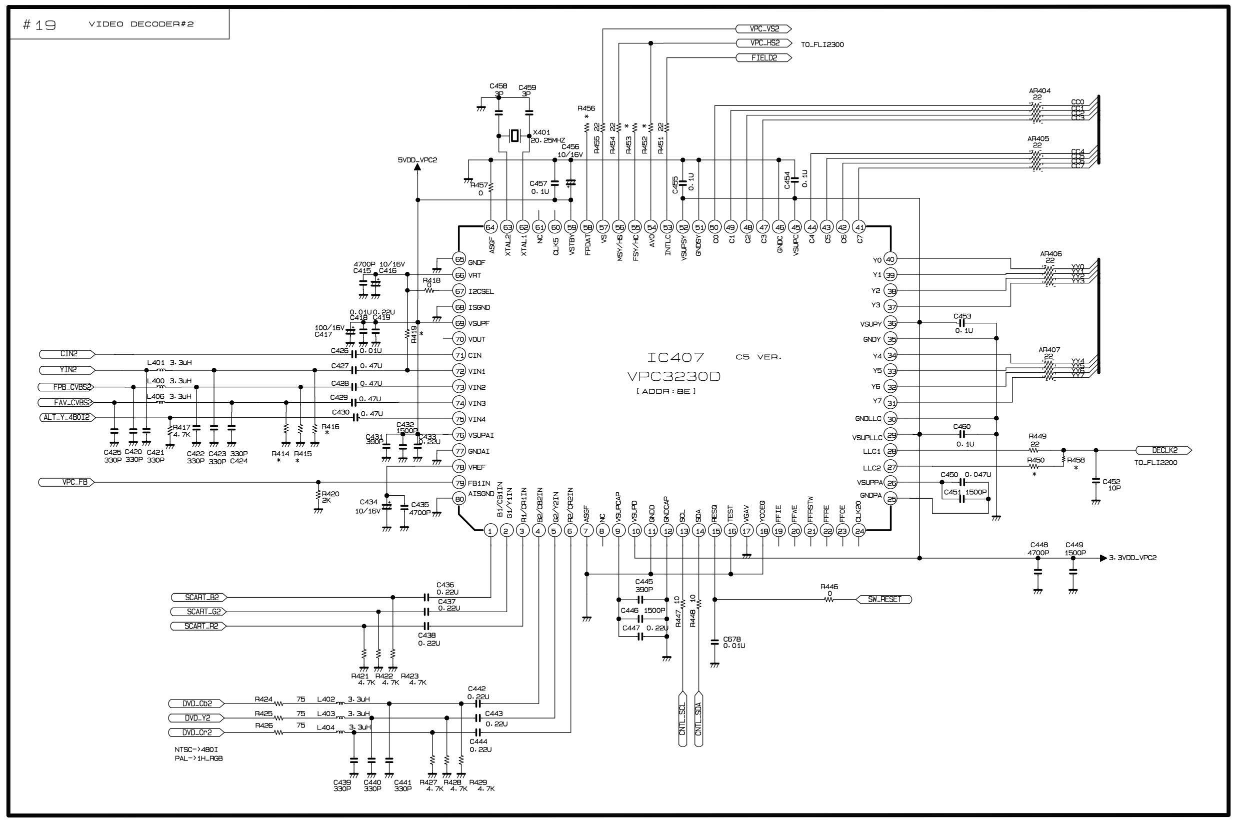


P/No : 3854VA0133A-S2(2/2)
2003.6.21



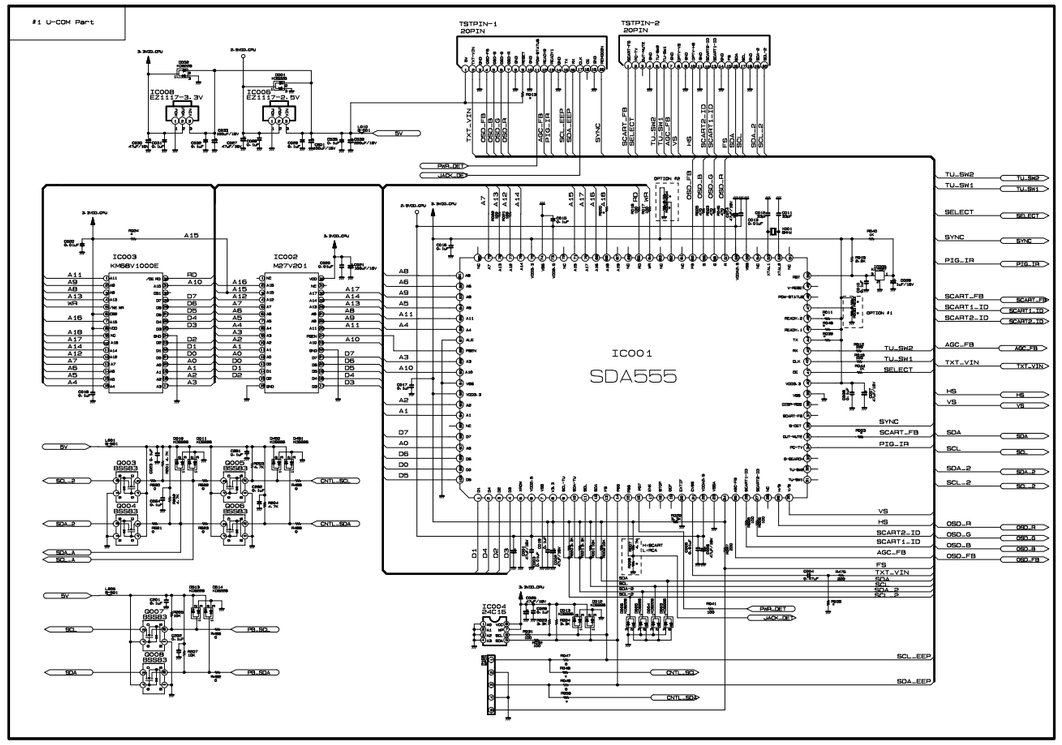
#18 EXT-PIN
5VST_EPR
12VCON
P900
5VDD_BUFF
IC917
74ACT253SC
IC915
74HCT157
PB_LIN
PB_CVBS
PB_RIN
PB_R
PB_SCL
PB_G
STBY_5V
PB_IRSW
PB_SDA
PB_B
AV_LOUT
PB_FB
AV_CVBS
AV_ROUT
CNTL_SCL
PB_HS
PB_VS
PB_IR
CNTL_SDA
/PB_DET
OSD_R
SCART_R
SCART_R2
OSD_G
SCART_G
SCART_G2
OSD_B
SCART_B
SCART_B2
TX_INT_PRE
TXT_MODE
OSD_FB
VPC_FB

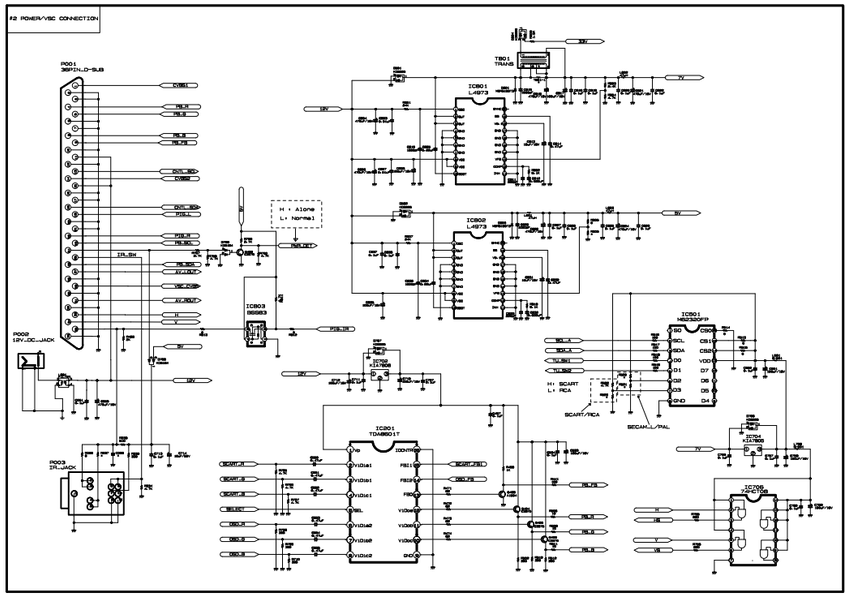


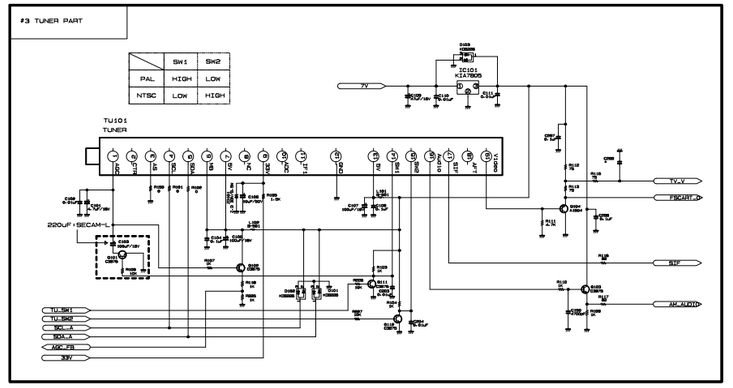


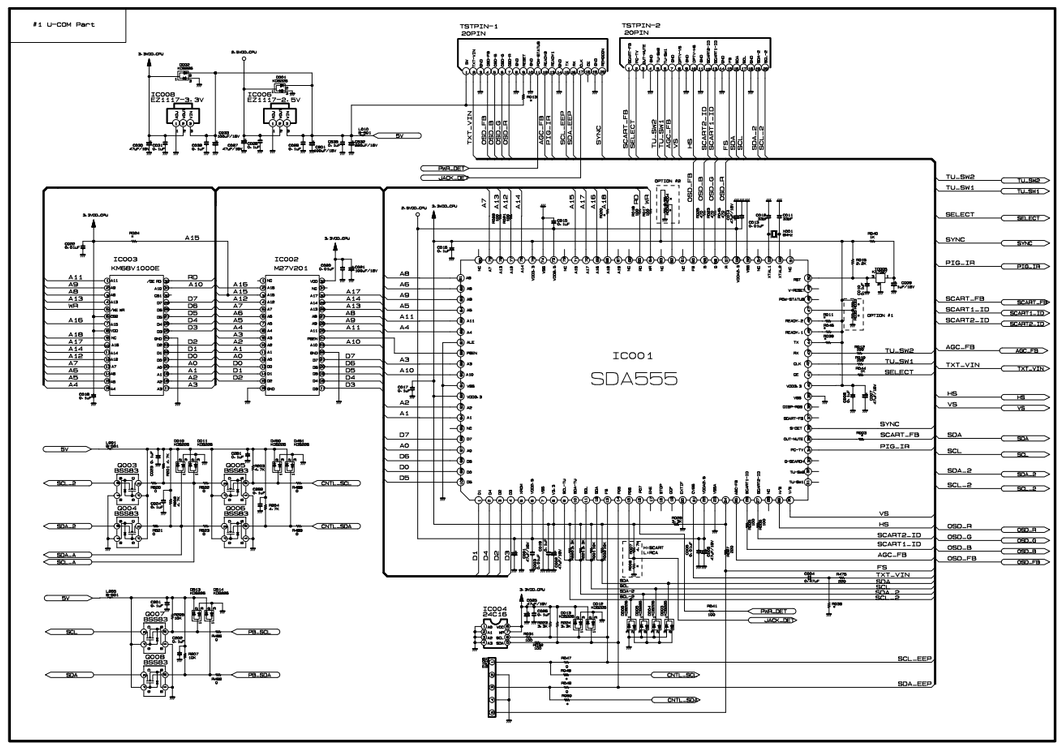
P/No : 3854VA0133A-S3(1/2)
2003.6.21

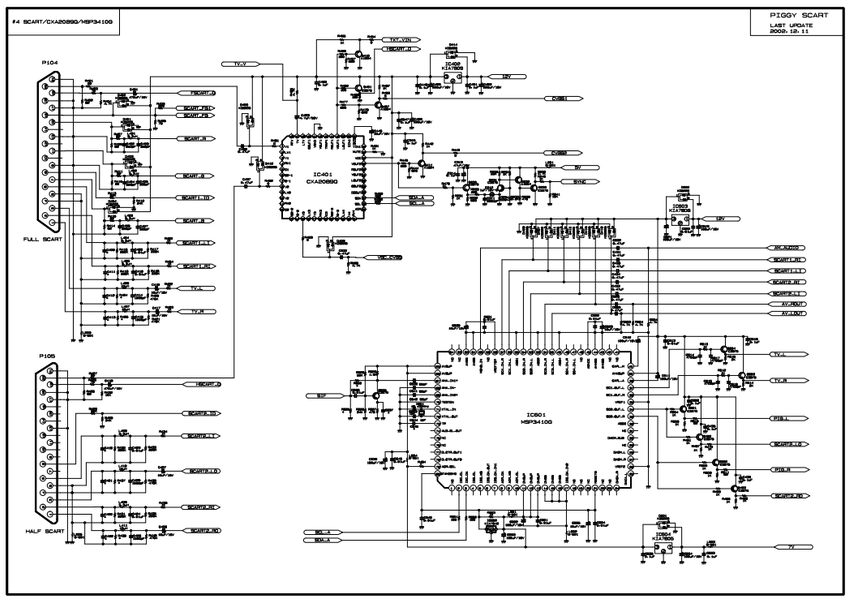
■ TUNER (RZ-BA50)





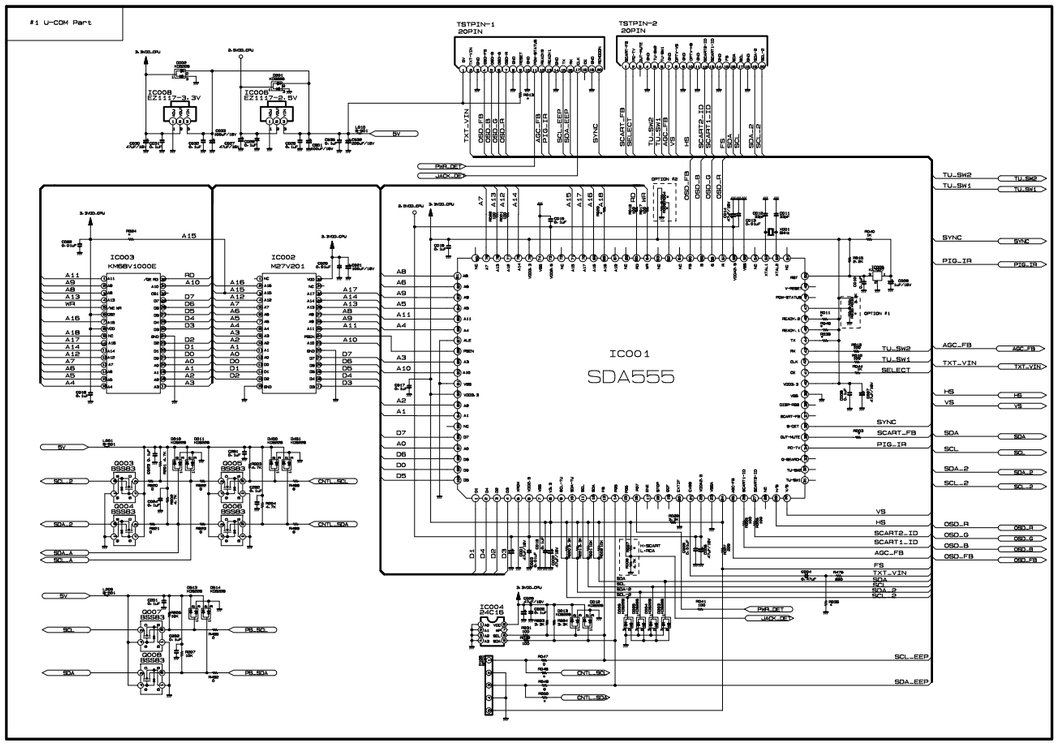


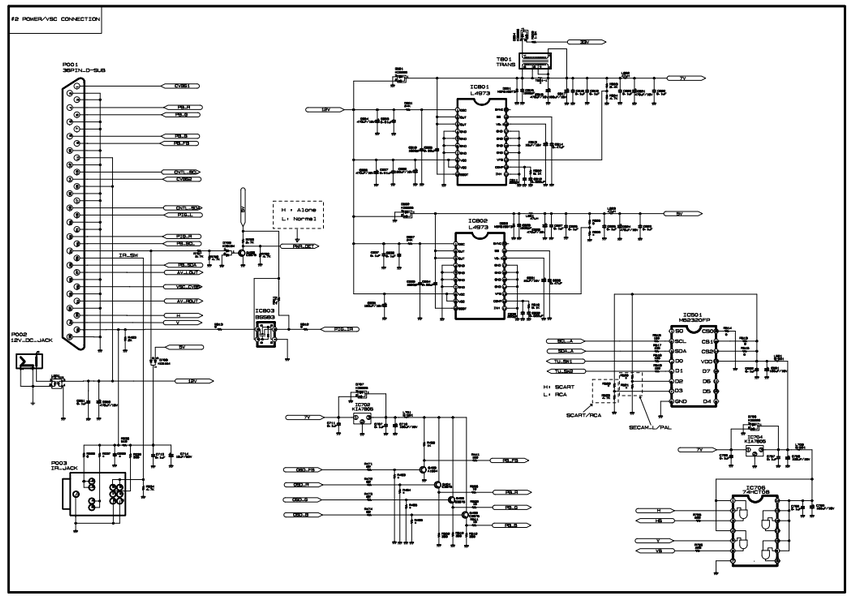


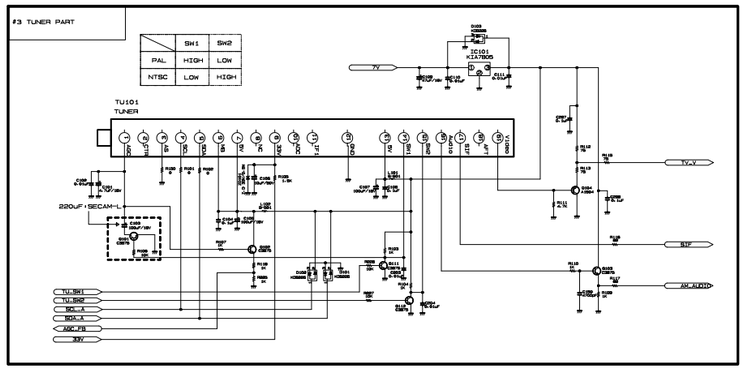


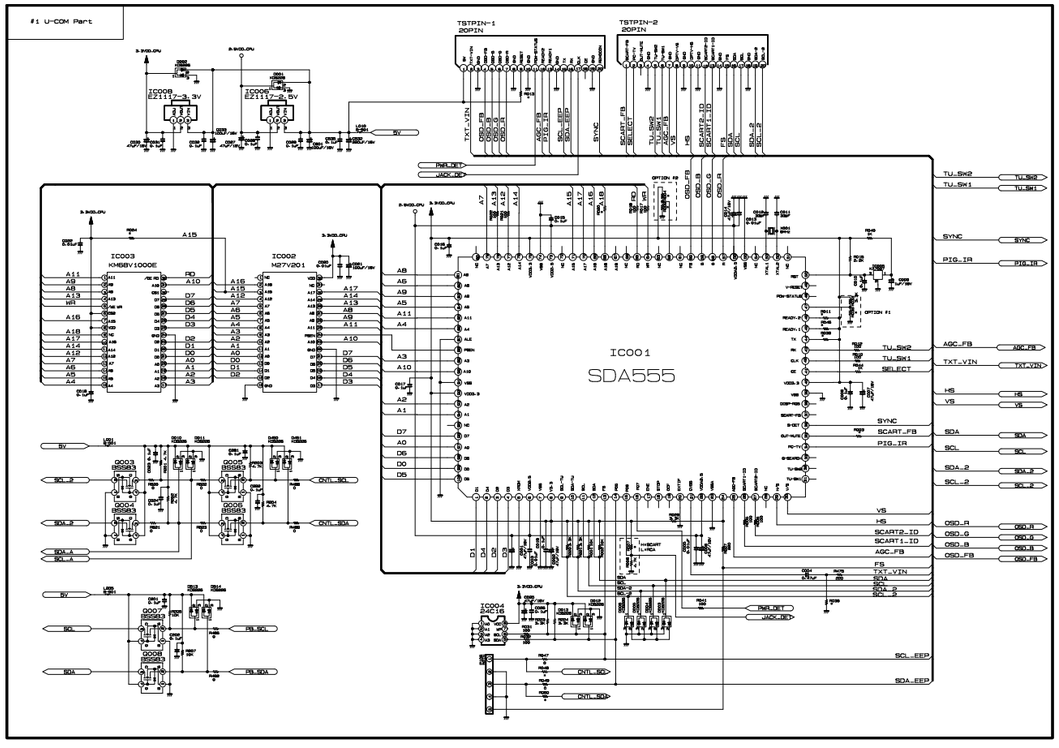
P/No : 3854VA0133A-S3(2/2)
2003.6.21

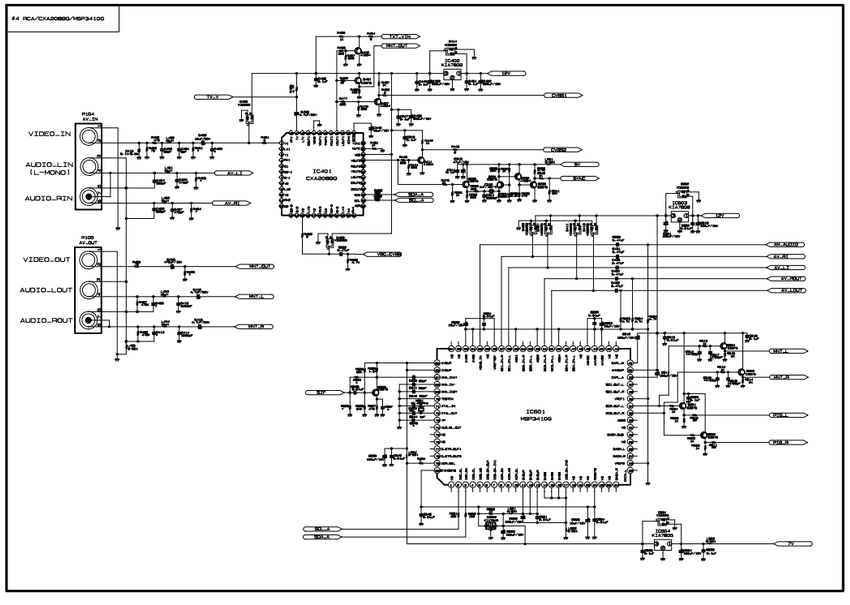
■ TUNER (RT-BA50)











P/No : 3854VA0133A-S4(1/2)
2003.6.21

SVC. SHEET : 3854VA0133A-S1
SVC. SHEET : 3854VA0133A-S2
SVC. SHEET : 3854VA0133A-S3
SVC. SHEET : 3854VA0133A-S4

P/NO : 3828VD0129J

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